



Saint Joseph's College



1970-71 Catalogue



Correspondence for further
information may be addressed to
the appropriate office at Saint
Joseph's College, Rensselaer,
Indiana 47978, as follows:

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President

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Faculty Appointments
LOUIS C. GATTO
Vice President for Academic Affairs

Transcripts of Credits
CHARLES J. ROBBINS, C.PP.S.
Registrar

Admission Information
WILLIAM J. STAFFORD
Director of Admissions

Business Affairs
PAUL WELLMAN, C.PP.S.
Vice President for Business Affairs

Public Relations and Development
EDWARD J. JOYCE, C.PP.S.
*Vice President for Public
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Director of Public Information

Student Affairs
EMIL J. LABBE, C.PP.S.
Vice President for Student Affairs

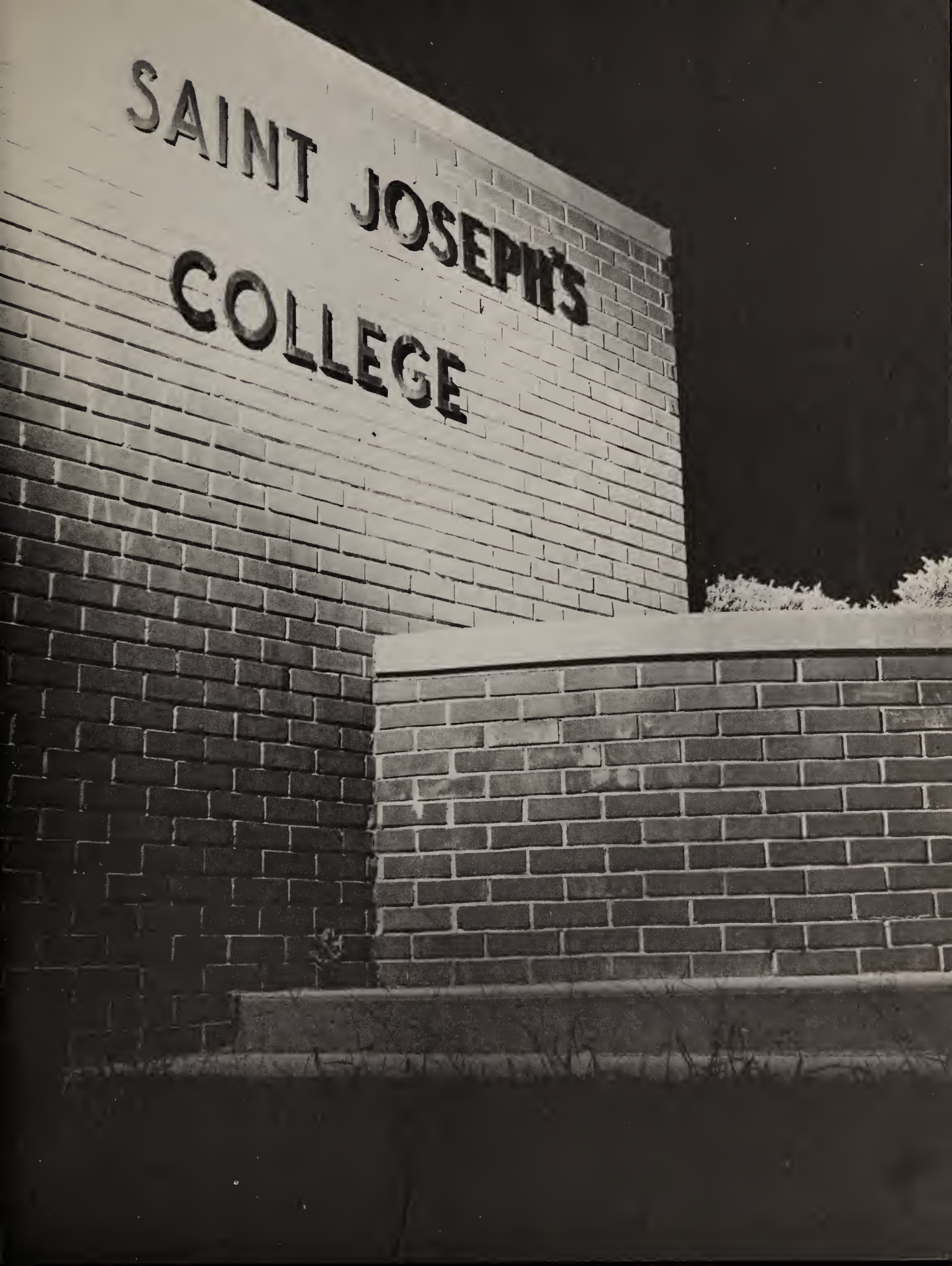
Athletic Information
RICHARD F. SCHARF
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JOSEPH BOTON, C.PP.S.
Director of Summer Session

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SAINT JOSEPH'S COLLEGE
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SAINT JOSEPH'S
COLLEGE



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THE COLLEGE



THE COLLEGE

Saint Joseph's College is an independent institution of higher learning dedicated to being a community of scholars—teachers and students—working in mutual association under the leadership and direction of its teachers, towards the spread, preservation, clarification, discovery and defense of truth. Whether the truths of the sciences, arts and skills be viewed as revealed or acquired, as speculative or practical, as moral or artistic, the dedication to these truths and the search for them is the primary purpose of Saint Joseph's. The academic and the general policies and procedures of the college as well as the relationship of Saint Joseph's to its public are conceived and carried out in terms of this basic purpose.

At the same time, Saint Joseph's College also recognizes that it exists in the larger context of society, and that its faculty and students have definite relations and obligations to the family, the state and the Catholic Church, as well as to various other societies representing industry, business, labor, health and recreation. For this reason, the College adopts as its own those aims toward which the family, state, Church and other societies are directed.

Foremost among the aims which the College actively provides for and promotes is that goodness of personal, family, social and religious life made possible by practice of the theological and moral virtues. In this respect, the College again maintains that both faculty and students can understand better what they must be and what they must do in the city of man so as to maintain their sublime end in the city of God, by means of fulfilling their calling in life as witnesses to truth.

The College adopts and proposes to its faculty and students other worthy aims which are required and helpful to them in seeking and in striving for goodness of life. Among these are the need for observing social justice as well as of pursuing individual rights, the importance of fulfilling one's vocation in life, and the need of discipline, of recreation and of mental and physical health. But it is the belief of Saint Joseph's College that no matter how worthwhile these aims are, they can be more surely achieved to the extent that teacher and student are dedicated to their proper purpose—truth.

Moreover, the College believes in truth for our age and times. It places its emphasis on the truths of the sciences, arts and skills with which it is concerned and chooses its curriculum in terms of the problems, questions and needs of the time in which it lives. Saint Joseph's College is convinced that any and all of the truths which it considers—whatever they may be—are to be sought for their own sake primarily; for it is only in this way that they can lead to goodness of life, further the good of family, state and Church, and be of value to industry, business and all human endeavors.

The primary consideration and concern of the College is for the academic community of teachers and students, to whom it offers a permanent vocation as witness to truth. The library, the counseling of students, the social, recreational and physical facilities, the classrooms and laboratories—all are viewed as means and as conditions contributing towards its main purpose—truth.

COLLEGE HISTORY

In 1868, a frame dwelling was erected a mile south of Rensselaer as a home for thirty-five orphans. The home was closed in 1887. Two years later, The Most Reverend Joseph Dwenger, bishop of Fort Wayne, offered the vacant orphan's home and land to Father Henry Drees, then Provincial of the Society of the Precious Blood, with the stipulation that a college be founded there. During the same year, 1889, Saint Joseph's College was incorporated under the laws of the state of Indiana with the right to grant scholastic degrees.

The educational program in the early years was on two distinct levels, the high school and the junior college. The aim was to prepare students for professional schools and seminaries, for teaching and for immediate entry into business. The new college passed its first major milestone June 16, 1896, when it presented diplomas to twelve students, its first class of graduates.

The original aims of Saint Joseph's changed little up to 1925. At that time the college was converted into a minor seminary and for a period of six years admitted only students preparing for the priesthood. The status of academy and junior college was re-established in 1931, and plans for the expansion of the school were formulated. Saint Joseph's began to operate as a senior college in 1936, and in June 1938, its first four-year class was graduated.

In the next three decades, Saint Joseph's grew from a school of few buildings to a contemporary college. The expansion was carefully designed to utilize the one hundred and thirty acre campus to serve the educational needs of Saint Joseph's student.

In 1951, in response to the need for a Catholic college in the Calumet Region of northwest Indiana, the College began an extension program in East Chicago. This program developed to the point that in 1963 it was granted the status of a campus, known as Saint Joseph's College Calumet Campus, offering a full four-year college program similar to that of the Rensselaer Campus.

With an ever-present desire to improve its educational opportunities, Saint Joseph's has introduced campus and curriculum innovations which evidence its contemporary philosophy of education.

The campus Computer Center was completed in 1966 and offers students training and experience in both scientific and commercial data processing. The Center's IBM 1130 Model 2 computer is linked with the allied unit record equipment of Purdue University's IBM 7094 and CDC 6500 and comprises the largest computer facility in the state of Indiana.





In 1968, the College ended its 79-year policy of admitting male students only. The change to a coeducational institution was made to widen the range of students contributing to the College's intellectual atmosphere and to create an air of better social and academic involvement on campus. Saint Joseph's offers a wide spectrum of programs and courses for coed students, who have responded by enrolling heavily in the areas of education and the humanities.

The introduction of the Core Curriculum program in the fall of 1969 shifted the direction of general education courses from that of a series of separate courses to an interdisciplinary approach. This combined the previous courses into a program examining issues of history, philosophy, theology, literature and other subjects within a historical framework. The interrelated nature of all subject material in the Core Curriculum allows the student to have an overview which permits deeper understanding and clearer insights.

Improving and expanding the quality of academic offerings is a continuing process at Saint Joseph's. The Honorable Charles A. Halleck, former Congressman and House minority leader, holds the post of Distinguished Lecturer in History and has contributed generously of the knowledge gained from his years on Capitol Hill in a lecture course on American government. The list of major programs of study has grown to 27, with physics, French, Spanish and medical technology the most recent additions. In affiliation with De Paul University, an M.A. degree in church music also may be earned.

Course-offerings, physical facilities, faculty members and students are all part of a heritage which is constantly growing and improving as Saint Joseph's continues to successfully face the fast-paced challenges and rewards of contemporary American education.

CAMPUS

ADMINISTRATION
BUILDING

Dedicated in 1889, the Administration Building is the oldest structure built at Saint Joseph's. Its three stories house the offices of the President, Business Office, Development Department, Admissions Department, Registrar, Academic Dean, faculty members and classrooms.

SAINT JOSEPH'S
CHAPEL

This attractive Romanesque brick and stone Chapel has served the college since 1910, and its stately twin bell towers have become synonymous with the College itself. Beneath the Chapel is the Chapel Cafeteria, dining hall for freshmen and sophomores.

SCIENCE
BUILDING

The two wings of this building, completed in 1936, house science laboratories, the Music Department, the school library, the college auditorium and classrooms. The north-south wing includes Music Department office and rehearsal rooms, the College's 400-seat auditorium, and the school's 135,000 volume library. The Building's east-west wing contains physics, chemistry, biology and geology laboratories in addition to many of the college classrooms.

PUBLICATIONS
BUILDING

Originally serving as the editorial offices of various College publications, this Building now holds the campus Post Office, and offices of the Computer Center, Alumni Association, Athletic Director, Placement, Department of Institutional Research, and WOWI, the College's student radio station.

HALLECK CENTER

Halleck Student Center, named after Charles A. Halleck, former Congressman from Indiana and a long-time member of Saint Joseph's Board of Trustees, serves as the college student union building. The Center houses the junior-senior dining room, the College bookstore, student lounges, the Raleigh Room Grill, meeting rooms, the offices of the Deans of Men and Women, the Vice-President of Student Affairs, the Director of Public Information, student publication staffs and the Student Association.

DWENGER HALL

Erected in 1907 and named for the second bishop of the Diocese of Fort Wayne, it serves as the College infirmary and dispensary.

**ALUMNI
FIELDHOUSE**

The Fieldhouse seats 2000 spectators and provides locker rooms for over 500 participants in the school intramural sports programs. Besides serving as the site for Puma basketball games, the Fieldhouse is also the scene for concerts sponsored by the student association during the school year.

RALEIGH HALL

This building holds weight-lifting equipment, wrestling meets and other athletic facilities and is open for use by all students.

THE GROTTTO

Built by donations from the class of 1945, the Grotto consists of a shrine of the Blessed Virgin and a statue depicting Christ at Gethsamane. The Grotto rests in a grove of trees towards the south end of the campus and includes Stations of the Cross and walking paths.

**THE REFLECTING
POND**

A part of Saint Joseph's since the College's earliest days, the Reflecting Pond borders the Administration Building and Chapel at the College's main entrance. The scenic pond and fountain are picturesque sights to Collegeville students and visitors.



TEACHING FACILITIES

LIBRARY

The College library, located in the south wing of the Science Building, is recognized as being one of the top three undergraduate Catholic libraries in the country and in the top 20% of all college libraries.

Holding over 135,000 books and bound periodicals, the library covers 23,000 feet of floor space and seats 200 students in the reading rooms as well as in individual study carrels. Over 1400 periodicals are received currently, and microfilm material and an extensive record library are also available for students' use. A map collection of over 33,000 is separately housed in the Geology Department.

LABORATORIES

The Science Building contains laboratory facilities for the Departments of Biology, Chemistry, Geology and Physics. The biology laboratories, situated on the second floor of the Science Building, provide equipment for courses in fundamental zoology and botany, microtechnique embryology, histology, comparative vertebrate anatomy, human anatomy and physiology. Laboratories for general inorganic and organic chemistry, biochemistry, quantitative analysis, qualitative analysis and physical chemistry are located on the third floor of the Science Building.

Geology labs are in the west wing basement of the Science Building, serving the fields of physical geology, minerology, petrology, paleontology, photogeology, subsurface geology, stratigraphy, and economic geology.

COMPUTER CENTER

Located in its own air-conditioned offices, the Saint Joseph's College computer facility affords students the opportunity to train in both scientific and commercial data processing fields. The College's IBM 1130 Model 2 computer with the allied unit record equipment of Purdue University's IBM 7094 and CDC 6500 comprises the largest computer facility in the state of Indiana.

TELEVISION AND RADIO STUDIOS

Under the direction of the department of Communication and Theatre Arts, video-tape facilities offer students the opportunity to gain experience in television production and direction. Campus radio station WOWI is also affiliated with this program, giving students academic credit for satisfactory work in the field of radio programming.

RESEARCH

In September of 1946, Father Urban J. Siegrist began special research work in connection with the Institutum Divi Thomae, which was founded in 1928 by the Most Reverend John T. McNicholas, O.P., S.T.M., Archbishop of Cincinnati. A laboratory for research in cellular physiology was built in 1955.

COLLEGE HOUSING

AQUINAS HALL

Opened in the fall of 1959, this three-story hall houses 50 students and is named for St. Thomas Aquinas, patron saint of Catholic education. Students studying for the brotherhood or priesthood use Aquinas as their residence.

BENNETT HALL

Named for the Most Reverend John G. Bennett, first Bishop of Lafayette, an alumnus and generous patron of the College, this hall houses 98 students and was dedicated in the spring of 1955.

CHRISTOPHER HALL

Located in the upper stories of the Administration Building's southern end, Christopher Hall houses brother postulants.

DREXEL HALL

This three-story structure accommodates 110 students and is named for Mother Catherine Drexel, donor of the building funds.

GASPAR HALL

One of the oldest buildings on campus, Gaspar Hall holds 50 students and is named for St. Gaspar del Bufalo, founder of the Society of the Precious Blood, the religious order which teaches at Saint Joseph's.





GALLAGHER HALL

Named after Robert A. Gallagher, first chairman of Saint Joseph's Board of Trustees and a generous patron of the college, this hall was dedicated in 1958 and houses 125 students.

HALAS HALL

Dedicated in the fall of 1958, this hall is named for George S. Halas, member of the College Board of Trustees, generous patron of the College and owner of the Chicago Bears, who annually hold summer training sessions at Saint Joseph's. It holds 125 students.

MERLINI HALL

Merlini Hall accommodates 80 students, was dedicated in 1940, and is named after the Venerable John Merlini, the third Moderator-General of the Society of the Precious Blood.

NOLL HALL

Dedicated in the spring of 1955 and housing 98 students, this building is named after the Most Reverend John F. Noll, Bishop of Fort Wayne, an alumnus and generous patron of the College.

JUSTIN H. OPPENHEIM HALL

Saint Joseph's 250 coeds are housed in this three-story, air-conditioned facility. Named after the late Justin H. Oppenheim, member of the College Board of Directors, an alumnus and generous patron, this hall provides two comfortable lounges which join the building's two wings.

SCHWIETERMAN HALL

Dedicated in May 1963, this building serves as the residence for priests, brothers and major seminarians of the Society of the Precious Blood. The Y-shaped structure is adjacent to the Chapel and Xavier Hall.

SEIFERT HALL

The two wings of this building hold 70 students each and is named for Saint Joseph's first president, the Very Reverend Augustine Seifert, C.P.P.S.

WASHBURN HALL

Located in Rensselaer on Grace Street, Washburn Hall is the converted mansion of an old town family and houses 35 students.

XAVIER HALL

Dedicated to Saint Francis Xavier, patron of the Society of the Precious Blood, Xavier Hall was built in 1940 and is the residence of seminarians studying for priesthood in the Society.

ADMISSION AND FINANCES



ADMISSION AND FINANCES

ADMISSION

All correspondence relating to admission should be addressed to the Director of Admissions, Saint Joseph's College, Rensselaer, Indiana 47978. Application for admission should be filed as early as possible and all credentials should be in the hands of the College at least three weeks before the opening of the school term. Application forms will be sent upon request. All credentials submitted as part of the admission procedure become the property of the College.

GENERAL REQUIREMENTS

Whether or not the student meets the entrance requirements will be determined on the basis of the information contained in his high school record. It is understood that these minimum requirements do not necessarily guarantee an applicant's admittance. From among the applicants who meet the entrance requirements, the College reserves the right to select those best qualified to succeed at Saint Joseph's. Therefore, the approval or rejection of an application may, in some cases, be deferred until later in the admissions period.

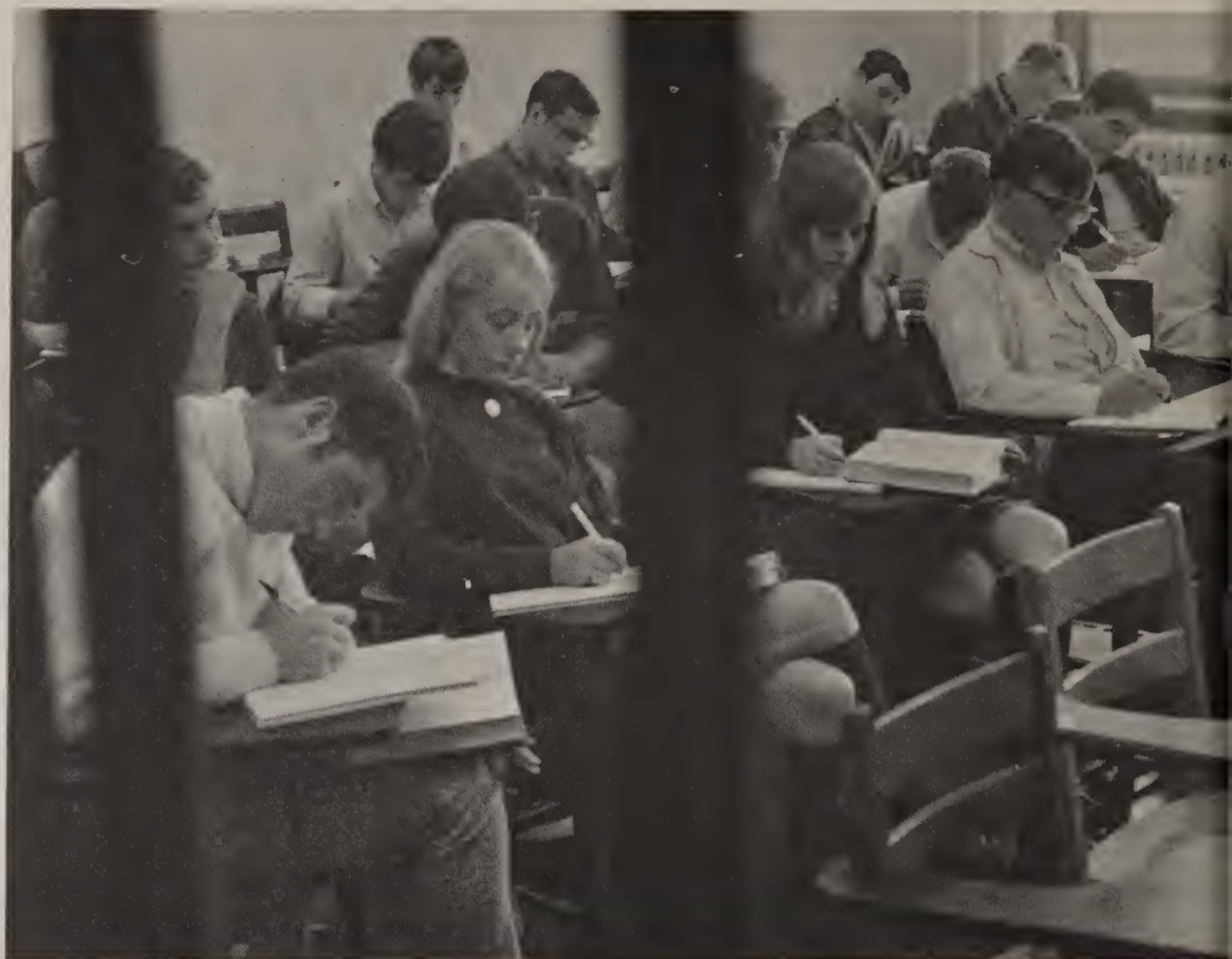
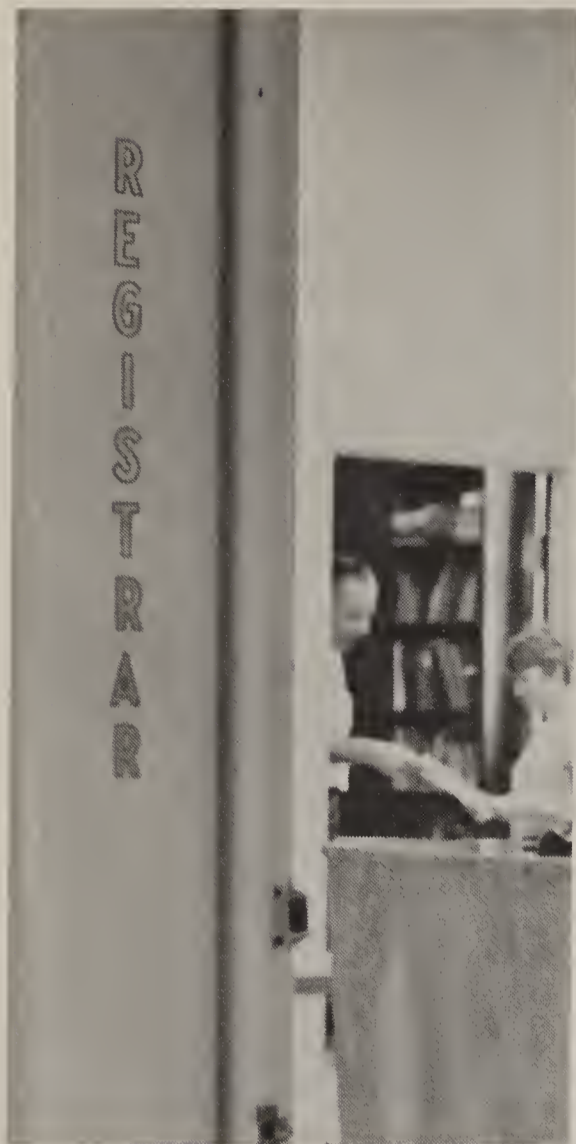
All applicants shall comply with the following requirements:

1. Application form filled out completely by applicant.
2. Official transcript of credits from all high schools and colleges previously attended, mailed directly from the schools to the Director of Admissions.
3. Evidence of good health and proper immunization provided on an official medical certificate form supplied by the College after an application has been approved.
4. Notification of acceptance from the Director of Admissions. Final action in each case is based upon satisfactory evidence of scholastic ability of the applicant.

Applicants who fail to meet the qualifications, and yet for other reasons give promise of success in college, may be permitted to take an entrance examination, or be admitted upon the recommendation of the high school principal or counselor.

Where in individual cases the applicant meets the regular requirements for admission and yet shows signs of inadequate preparation for college, the Committee on Admissions may require further evidence through an entrance examination or other means.





ADMISSION TO FRESHMAN STANDING

Candidates for freshman standing will be selected from applicants who present the following academic credentials:

1. Certificate of graduation from an approved high school. Graduates from other high schools may be accepted conditionally; full standing will be dependent upon subsequent work.
2. Minimum of fifteen units, ten of which must be from the following academic fields: English, foreign language, social studies, mathematics, and natural sciences. It is not necessary that all of these fields be represented in the ten units. The term **unit** expresses a measure of academic credit, representing a subject carried through not fewer than thirty-two weeks with five class meetings a week or the equivalent.
3. Every applicant is **required** to take the Scholastic Aptitude Test of the College Entrance Examination Board. The test is given in December, January, March, May, and August. It is recommended that the Scholastic Aptitude Test be taken early in the senior year. Students wishing to make application to take the test should procure application forms from their secondary schools, or write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or P.O. Box 27896, Los Angeles, California.
4. A student must achieve a satisfactory composite predictive index. This index is based upon the applicant's class rank, and SAT verbal and math scores.

ADMISSION AND FINANCES

ADMISSION OF
SPECIAL STUDENTS

Students who wish to pursue particular studies without being candidates for a degree may be admitted as special students if it seems that they profit from such work. In no case, however, will an applicant under twenty-one years of age be considered eligible to enter as a special student unless he has graduated from high school. Work done by special students will not be counted toward a degree until all entrance requirements have been fulfilled.

EARLY ADMISSION

Exceptionally well-qualified students who have not graduated from high school, but who have completed at least their junior year, may be admitted to freshman standing. Their eligibility for admission will be determined on the basis of high school courses and grades, objective tests and the recommendation of their high school principal or counselor.

ADMISSION OF
TRANSFER
STUDENTS

Students transferring from other institutions whose curricula are substantially the same as those of Saint Joseph's may be admitted with advanced standing. These students must:

1. Meet the general entrance requirements.
2. Be eligible to continue in the institution from which he wishes to transfer.
3. Be entitled to honorable separation from the institution last attended.
4. Present a minimum 2.00(C) cumulative index for all completed work.
5. No credit will be allowed for work which is not declared prior to admission.



**EXPENSES AND
FEES—1970-71****TUITION**

Tuition for one semester	\$800.00
Day Students: \$55.00 per credit hour to	\$800.00

This entitles the student to:

1. Academic instruction and advisory direction.
2. Ordinary medical care in the Health Service.
3. Subscription to campus publications.
4. Admission to all student activities.
5. Use of athletic facilities.

Members of the same family attending simultaneously are charged the following tuition rates:

Two members (12½ % reduction each)	\$700.00
Three members (16⅔ % reduction each)	\$666.67
Four members (25 % reduction each)	\$600.00

BOARD

Board for one semester	\$325.00
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This entitles the student to three meals a day, seven days a week, except during scheduled vacation periods.

ROOM

Room for one semester	\$125.00
Private home off campus	Special Arrangement

SPECIAL FEES

Application Fee (paid at initial entrance)	\$ 10.00
Pre-Registration Fee (applicable to tuition and paid by all returning students not later than June 15 and refundable to June 30; \$10.00 penalty, non-refundable and non-applicable to tuition added for pre-registration after June 15)	\$ 25.00
Student Association Fee (paid each semester)	\$ 15.00
Student Center Fee (paid each semester)	\$ 25.00
Day students pay \$2.50 base plus \$1.50 per credit hour up to \$25.00.	
Student Identification Card (paid once a year)	\$ 3.00
Room Key Deposit (paid once a year and refunded)	\$ 1.00
Room and Damage Deposit (paid once by all resident students and refunded to seniors soon after graduation; if a student withdraws or is dismissed the money will be refunded one month after the semester following the student's departure, if there are no damage charges) . .	\$ 50.00
Graduation Fee (paid once—senior year)	\$ 25.00

CONDITIONAL FEES

Late Registration	\$ 10.00
Tuition per credit hour above 17	\$ 20.00
Laboratory Fee for science courses	\$7.50 to \$15.00
Music Lesson: Lesson per week per semester	\$ 30.00
Student Teaching (Advanced Education students)	\$ 20.00
Credit by Examination	
Full time students	\$ 10.00
Special, interterm, and summer session students (per credit hour)	\$ 55.00
Course Change	\$ 5.00
Infirmary, each day	\$ 5.00
Car Registration (paid once a year)	\$ 10.00
Transcript of Credits	Students \$.50 — Alumni \$1.00

FINANCIAL REGULATIONS

Upon acceptance by the admissions office, each student is required to make a \$100.00 deposit (non-refundable) applicable to semester expenses. A payment of \$50.00 is due by May 1 and the final payment is due July 15. If the deadlines are not met, the College will assume the student does not intend to enroll and will cancel the application. In addition all new resident students pay a \$50.00 room and damage deposit (refundable if there are no room damage charges).

All fees are to be paid before the beginning of each semester. A 1% per month interest charge will be levied on all unpaid balances.

Remittance should be made payable to Saint Joseph's College by bank draft, personal check, or postal money order through the Rensselaer Post Office, and mailed to: Office of the Vice-President for Business Affairs, Saint Joseph's College, Rensselaer, Indiana 47978.

Students whose accounts are not paid within the semester will not be admitted to the semester examinations.

Degrees, transcripts, and letters of honorable separation are withheld from those who have not settled their financial obligations to the College.

TUITION PLAN

Available to the parents of students is an optional method of payment. For those who prefer to pay their expenses on a monthly basis, the services of The Tuition Plan, Inc., may be utilized. This and the College Aid Plan, Inc., are comprehensive programs covering from one to four years of schooling. Information concerning this service may be obtained through the Business Office.

COLLEGE AID PLAN

A national organization in educational financing, College Aid Plan, Inc., 1008 Elm Street, Manchester, New Hampshire 03101, has available a low-cost plan which also includes insurance protection at no additional cost. A parent may select a plan to cover 1-2-3 or 4 consecutive years' expenses. These plans are flexible and can be modified to cover yearly changes in educational expenses. Detailed information can be obtained by writing to the main office address above.

REFUND POLICY

Students who withdraw before the end of the semester will be charged for room (\$1.50) and board (\$3.50) at the rate of \$5.00 for each day, no refund allowance being made for incidental absences. Student Association fee is non-refundable. The Student Center fee is refunded on the same basis as tuition. Tuition charges will be assessed on the following percentage basis: One week or less, 20%; between one and two weeks, 20%; between two and three weeks, 40%; between three and four weeks, 60%; between four and five weeks, 80%; over five weeks, 100%.

FINANCIAL AIDS

The College adopts as its own the philosophy that the primary responsibility for financing a college education rests upon the student's family. Financial aid from college and other sources is viewed only as supplementary to the effort of the family. The student requesting financial aid is also expected to contribute toward his own educational expenses, through summer or school term earnings or loans in any reasonable combination. The College is prepared to assist the student through academic scholarships, grants, loans and employment.

APPLICATION FOR AID

All necessary financial application forms can be obtained from the Office of Admissions.

SCHOLASTIC APTITUDE TEST

All candidates for financial aid must take the Scholastic Aptitude Test (morning test of the College Entrance Examination Board). Complete information can be obtained from high school counselors, or from either of the two CEEB service centers, namely: P.O. Box 592, Princeton, New Jersey 08540 or P.O. Box 27896, Los Angeles, California. The November or December test is preferred, although other earlier test scores are acceptable. The verbal and mathematical scores of the SAT must be submitted to the College before February 1. Saint Joseph's College code number is 1697.

COLLEGE SCHOLARSHIP SERVICE

Saint Joseph's College participates in the College Scholarship Service. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists Saint Joseph's College in determining the student's need for financial assistance but does not itself give financial aid. Recommendations from CSS help the College to allocate its resources fairly.

PARENTS' CONFIDENTIAL STATEMENT

Parents of students seeking financial aid are required to submit the PCS for the College Scholarship Service where it is processed and evaluated. The Director of Student Financial Aids, Saint Joseph's College, should be designated as one of the recipients of the Financial Need Analysis Report. The CSS will, at the parents' request, send the financial analysis and recommendations to Saint Joseph's. The Financial Need Analysis Report must be in the Office of the Director of Student Financial Aids by April 1. The PCS form can be obtained from the high school counselor, or from the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540, or P.O. Box 1025, Berkeley, California 94701, or P.O. Box 881, Evanston, Illinois 60204. The ACT financial aid analysis program is acceptable.

ACADEMIC SCHOLARSHIPS

Saint Joseph's College annually offers scholarships to worthy and needy students. The scholarships are awarded on the basis of academic achievement and promise, as determined by the student's high school record, in conjunction with SAT scores. Normally those students seeking academic scholarships range in the upper quarter of their class in rank and have SAT scores of 1200 or higher.

The amount of the scholarship award is based on the student's financial need determined by the Financial Aids Committee in cooperation with the College Scholarship Service. For this aid the Parent's Confidential Statement is required.

Recommendations from the CSS are made to the College about two or three weeks after the parents have forwarded their statement to the CSS.

FINANCIAL AIDS COMMITTEE

The awarding of and final judgment on all financial aid rests with the Committee on Student Financial Aids, which meets between January 1 and April 30. Between these dates recipients will be notified. The chairman of the committee is the Director of Student Financial Aids, to whom all communications should be directed. All necessary material must be on file at Saint Joseph's College not later than April 1. No decisions, however, are made until the student has been officially admitted.

RENEWAL OF SCHOLARSHIPS

The first scholarship is granted for the freshman year. It is thereafter renewable every semester which the student spends at Saint Joseph's College until he graduates, provided that in the previous semester he has maintained at least a B average and his need continues. If a student loses his scholarship he can have it reinstated only by special action of the Committee on Student Financial Aids, which will normally expect him to have at least a cumulative average of B.

UPPERCLASS SCHOLARSHIPS

There are a limited number of scholarships available to sophomores, juniors and seniors who give evidence of superior scholarship and have financial need. They will ordinarily be expected to have at least a cumulative B average in addition to a B average in the previous semester. Such scholarships can be renewed as long as the student continues his B average work, continues to have financial needs, and remains in good social standing.

EDUCATIONAL OPPORTUNITY GRANTS

Educational Opportunity Grants are available from the Federal government through the College to a limited number of students with exceptional financial need who require these grants to attend college. To be eligible, the student must show academic or creative promise. The student's parents must be able to furnish less than \$626.00 annually towards the student's education, and have an annual income of less than \$9,000.

Eligible students who are accepted for enrollment on a full-time basis, or who are currently enrolled in good standing, may receive Educational Opportunity Grants for each year of their higher education, although the maximum duration of a grant is 4 years. Grants range from \$200 to \$1000 a year and can be no more than one-half of the total assistance given the student. The amount of financial assistance a student may receive depends upon his need—taking into account the student's financial resources, those of the parents and the budget cost of Saint Joseph's College. Students seeking the grant should complete the Application for Financial Aids. These applicants should follow the same procedure required for academic scholarships.



ADMISSION AND FINANCES

COLLEGE
WORK-STUDY
PROGRAM

Students, particularly those from low-income families who need a job to help pay for college expenses, are potentially eligible for employment by the College under federally-supported Work-Study programs. Eighty percent of the money is furnished by the federal government and twenty percent by the College. Students may work up to 15 hours weekly while attending classes full-time. During the summer or other vacation periods, they may work 40 hours per week under this program. In three months of summer employment under this program, an eligible student could earn about \$800. Students who work 15 hours a week during the school year could also earn about \$600.

Work may be for the College, or for approved off-campus agencies. This area of the program is under the direct supervision of the College. To work under this program, a student must be enrolled and be in good standing, or be accepted for enrollment as a full-time student. The student's eligibility depends upon his need for employment to defray college expenses. To establish need, the student must submit the Parents Confidential Statement through the College Scholarship Service.

STUDENT
EMPLOYMENT

In addition to the College Work-Study program, there are a limited number of other jobs. Some students find it necessary to contribute to their own support through job employment. The student should bear in mind that employment should not detract from academic needs. Often it is difficult for freshmen to work long hours and carry a normal class load at the same time. The usual policy regarding work is to limit it to 15 hours a week.

On campus there are calls for clerical and laboratory assistants, but most openings for employment are for maintenance and dining hall positions.

Application for campus employment should be filed in the Office of The Personnel after one is on campus and enrolled. Resident students may not accept employment on campus or engage in any business enterprises during the school year without permission of the Personnel Dean.

VETERANS'
ASSISTANCE

Saint Joseph's College is officially approved as a school for veterans of military service and for war orphans under Public Law 634. Financial assistance from these sources is granted from public funds.

VOCATIONAL
REHABILITATION

Under the provision of Public Law 565, the federal government and the state jointly provide funds for grants to students who have a physical or mental impairment which constitutes a vocational handicap. The State Vocational Rehabilitation Division is responsible for the determination of these grants. These grants pay tuition and some fee expenses.

MUSIC GRANTS

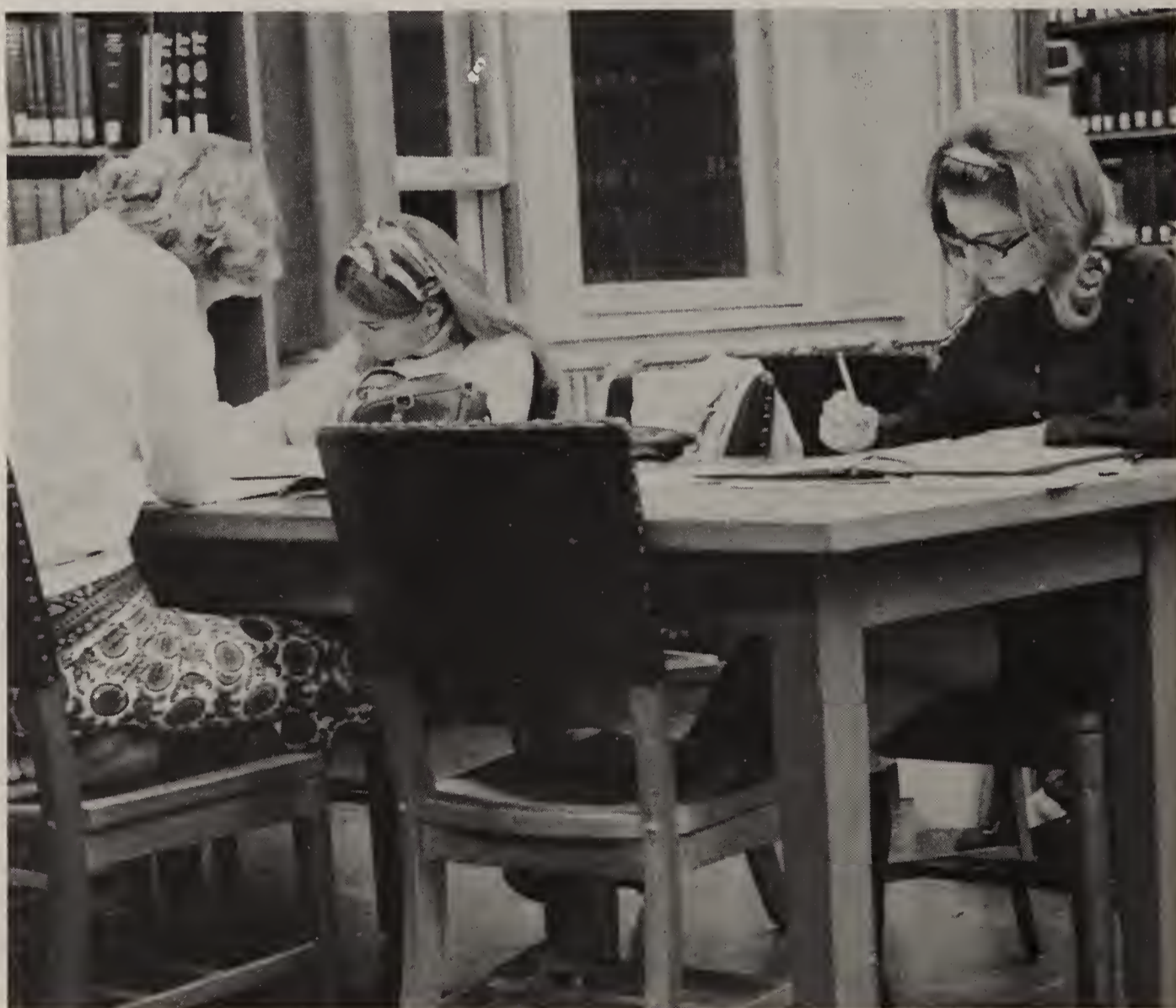
The College annually awards music grants to musically-talented students who are in need of financial aid. The grants are limited to \$200.00 per year and normally go to those who will play in the band. Applicants for these grants must submit the Music Form.

ATHLETIC GRANTS

Athletic Grants are awarded to qualified athletes. Presently, the College awards grants in football and basketball.

STATE SCHOLARSHIP PROGRAMS

State scholarship programs are second only to federal programs in the impact they have had on the student financial-aid world. These programs vary from state to state in purpose and structure. Presently only 18 of the 50 states have such programs. They are: California, Connecticut, Illinois, Indiana, Iowa, Kansas, Maine, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Oregon, Pennsylvania, Rhode Island, Vermont and Wisconsin. It is interesting to note that while none of the midwestern states permit their scholars to leave the state for study, seven of the northeastern states do permit this. Since laws do change, applicants seeking aid from these programs must review the matter with their high school principal or counselor for precise and pertinent details.





NATIONAL DEFENSE STUDENT LOANS

Saint Joseph's College participates in the National Defense Student Loan Program. High school graduates who have been accepted for enrollment in full-time courses and who need financial help for educational expenses are eligible for student loans. Ninety per cent of these Funds are provided by the Federal government; ten per cent is supplied by the College.

A student may borrow up to \$1,000 each academic year not exceeding a \$10,000 total. The repayment period and the interest do not begin until nine months after the student ends his studies. The loans bear interest at the rate of 3 percent per year and repayment of principal may be extended over a 10-year period.

If a borrower becomes a full-time teacher in an elementary or high school or in an institution of higher education, as much as one half of the loan may be forgiven at the rate of 10 percent for each year of teaching service.

Borrowers who elect to teach in certain eligible schools located in areas of primarily low-income families or in schools of handicapped children may qualify for cancellation of their entire obligation at the rate of 15 percent per year.

The College approves the loan and is responsible for its collection. Repayment may be deferred for a three-year period while a borrower is serving in the Armed Forces, with the Peace Corps, or as a Volunteer in Service to America (VISTA). Repayment is deferred, too, for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic load.

GUARANTEED LOANS

The education of students from middle or lower-income families frequently places a financial burden on their families, particularly if there are a number of children who wish to attend college. In many cases, the student cannot qualify for a National Defense Student Loan. Even when commercial credit sources are available, repayment generally runs concurrently with the college years.

Under this program a student may borrow from a bank or other financial institutions. A student from a family with an adjusted income of less than \$15,000 a year pays no interest while he is attending Saint Joseph's. The Federal government pays the interest to the bank during this period.

Repayment of principal and interest begins nine months after the student has ceased a course of study. A student from a family with an adjusted income higher than \$15,000 a year pays the entire interest on the loan.

The major objective of this program is to make loans available to any college student who wants to borrow. Applications are available at most banks.



ACADEMIC POLICIES

ACADEMIC
DEAN



ACADEMIC POLICIES

ENROLLMENT

All students are expected to report to the campus on the date officially designated in the College calendar. No new student will be admitted unless he has received official notice of acceptance from the Director of Admissions.

Students are enrolled as regular when they meet all entrance requirements and have been approved for a course of studies leading to the bachelor's degree; as special if the student is not at present working toward a degree. Students may be registered as either full-time or part-time students. A full-time student is one who is carrying a minimum of twelve semester hours of college credit, or who is registered for class work totaling at least fifteen periods per week.

LATE ENROLLMENT

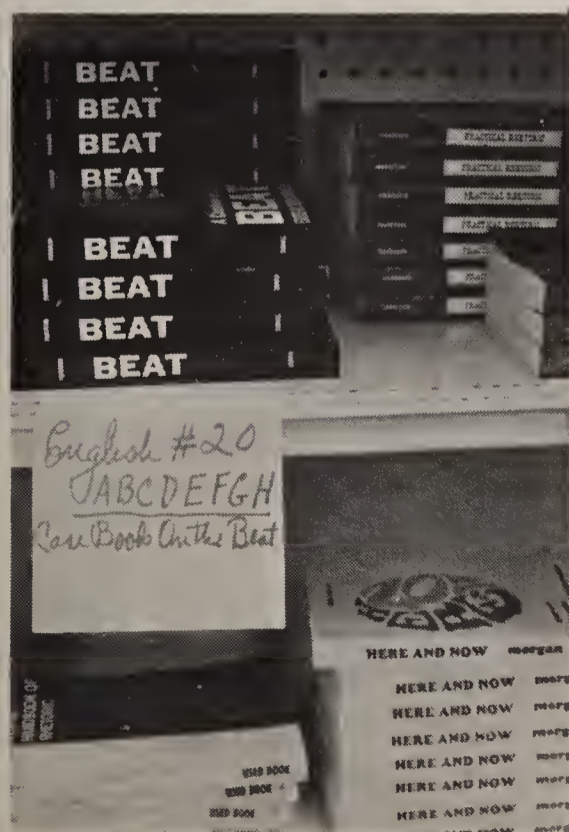
Students failing to enroll or to pay fees and tuition on enrollment day as designated in the catalog must pay a late enrollment fee.

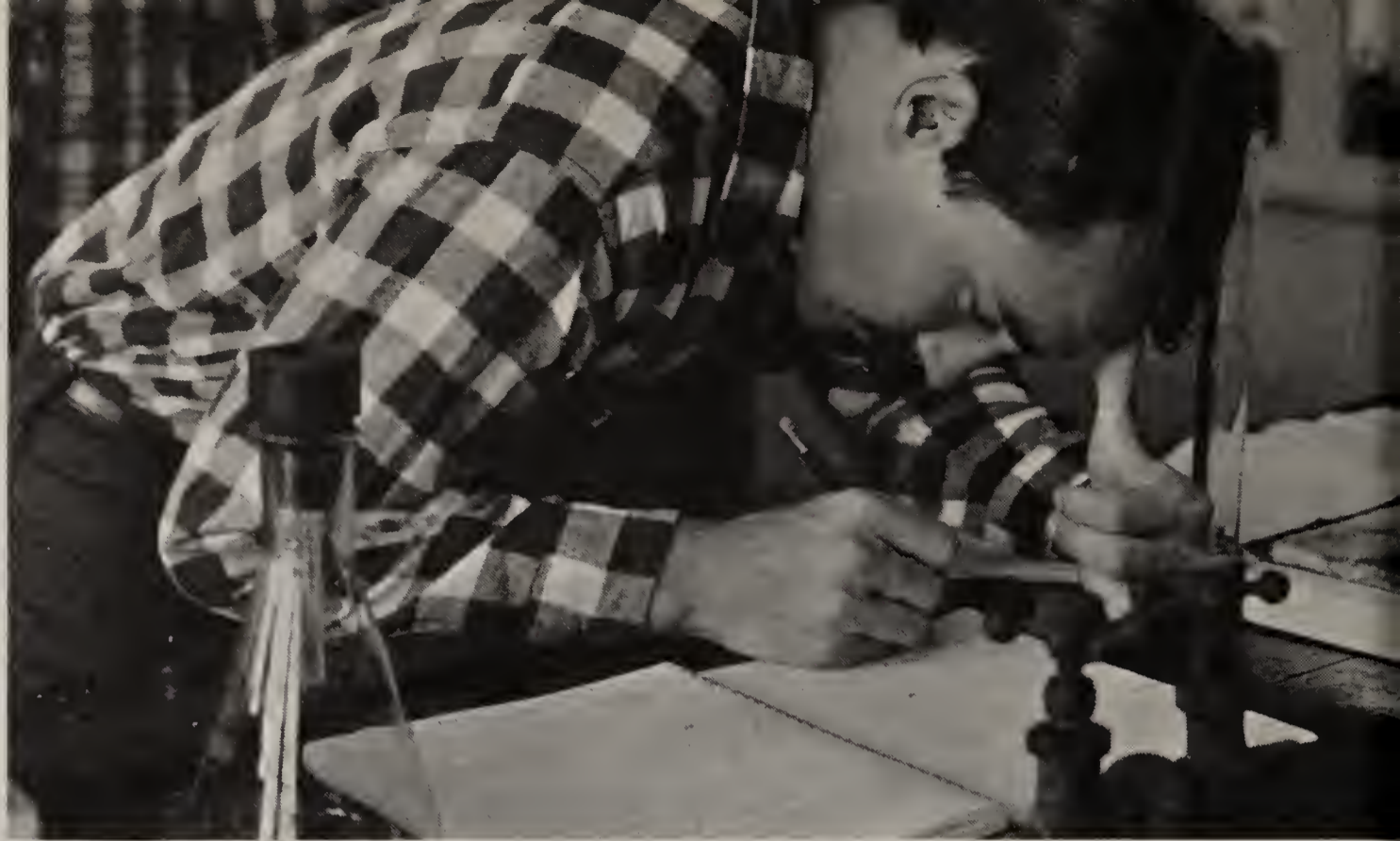
REGISTRATION

No student will receive credit for any subject taken in a class for which he has not been duly registered. After a student's class schedule has been approved, changes in courses or class sections must, in each instance, be approved and properly recorded with the Registrar.

CREDITS

The unit of academic credit is the semester hour. It represents the work of a semester course which meets once weekly for a fifty-minute period requiring approximately two periods of preparation. A class which meets twice weekly carries two hours of credit; three times weekly, three credits. One laboratory period (two to four hours) is the equivalent of one class meeting. The passing grade required before a student can receive credit is D.





CREDIT BY EXAMINATION

Any regularly-enrolled student of Saint Joseph's College, in good academic standing, may receive credit for any course in which he gives evidence of normal achievement by passing an examination in the subject matter of the course. All grades will be recorded, and credit will be granted for any passing grade. (See restrictions listed below under "Eligibility".)

1. Schedule of Tests: (a) at the beginning of the first semester; (b) the first semester final week; application must be made before October 6, (c) the second semester final week; application must be made before March 4.

2. Application to take credit examination is made at the Office of the Academic Dean. Fee for each test is \$10.00. For special, interterm, and summer session students, the regular tuition rates will apply for credit attempted via the credit-by-examination option. In these cases, the examination fee of \$10.00 is not charged.

3. Eligibility. No student may receive credit by examination (a) in a course for which he is currently enrolled for credit, or has, at some time, enrolled for credit or audit; (b) in courses involving laboratory experience or practice; (c) in Core courses; or (d) in introductory foreign language courses for which a student shows high school credit. (In programs requiring two years of foreign language, the requirement is fulfilled by advanced placement plus the completion of the sophomore year of the language course.)

4. Recording of tests. A record shall be kept in the student's folder of all tests taken with the intention of receiving credit by examination. Every grade, both passing and failing, will be entered in his permanent scholastic record, and designated as Credit by Examination.

5. The tests shall be tests of the type given in the course for which the student is seeking credit. Such tests shall be made out, scored, graded and administered by an instructor appointed by the Vice-President for Academic Affairs.

ACADEMIC POLICIES

TELEVISION
CREDIT

Students enrolled at Saint Joseph's College may receive credit for television courses: (a) on a transfer basis from any recognized college granting such credit; (b) from television courses conducted under campus supervision.

AUDITING
COURSES

Auditing a course means attending class without obligation with respect to regularity of attendance, outside class work, or examinations. Students register for audit courses in the same manner as for credit courses. The total number of credit and audit hours combined for which a student registers may never exceed twenty-one a semester. Audited courses are recorded in the Registrar's Office but do not form a part of the student's permanent scholastic record. For full-time students the fee for auditing a course is \$5.00 for each semester hour in excess of seventeen hours of credit and audit work combined. For part-time students the fee is \$15.00 a semester hour.

CLASS SCHEDULE

A "Schedule of Classes" is published at the beginning of each semester, showing the courses that are offered, the time of meetings, the room numbers, and the instructors. The College reserves the right to withdraw an announced course for which fewer than five students register. It also reserves the right to assign students to class sections and to limit the number of students who may elect a course in case the class becomes overcrowded or is of such a nature that limited enrollment is required.

Faculty counselors assist students in planning their programs of study. In all cases it is advisable that the student select his major by the end of his sophomore year and consult his faculty counselor regarding the pattern of courses for the major and minor sequences and the appropriate electives. A student's semester schedule of classes will not be considered final until it has been approved and filed in the Office of the Registrar.

CHANGE OF
SCHEDULE AND
CANCELLATION OF
COURSES

During the first week of classes in each semester a student may, with consent of the Registrar, change his schedule by adding or cancelling courses. Courses cancelled during this period do not appear on his permanent record.

CLASS LOAD

The normal amount of work for which a student registers in one semester is sixteen or seventeen hours. To be classified as a full-time student he must register for a minimum of twelve semester hours, or for class work totaling at least fifteen periods per week. Permission to register for a course in excess of eighteen hours must be obtained from the Vice-President for Academic Affairs; the basis for such permission shall be the student's ability as evidenced by previous college work. An extra tuition charge of \$20.00 for each credit hour in excess of seventeen will be applied to the student's account, except that students maintaining a cumulative index of 3.00 or better may carry twenty hours before an extra charge is made.



CLASS ATTENDANCE

All students are expected to attend all lectures, laboratory exercises, and scheduled examinations.

In sophomore and upper-level courses (#20 and above), class attendance is the student's responsibility. However, students enrolled in freshman courses (#19 and below) are required to attend all class meetings.

The total number of absences tolerated in a freshman course is not to exceed the number of times that course meets each week. If the absences exceed the number tolerated in a course, the reason for the additional absence must be approved by the Vice-President for Academic Affairs, verification of this acceptance will be forwarded to the instructor within seven days after the student's return to class.

The following are the reasons for which official excuses are given:

- a) Such sickness of the student as incapacitates him for class attendance (so attested by the infirmarian or a physician).
- b) Death or serious illness in the student's immediate family.
- c) Attendance at the wedding of a brother or sister.
- d) Properly authorized engagement in the interests of the College.
- e) Properly authorized participation as a team member in intercollegiate competition.
- f) Official government summons beyond the control of the student.

Instructors, in individual instances, may exempt sophomores and upperclassmen from the attendance regulation in freshman-level courses. Furthermore, it is within their jurisdiction to handle the matter of excessive class absence at any level.

ACADEMIC POLICIES

WITHDRAWALS
FROM COURSES

After the limit for changes in class schedules, students may not withdraw from a course for which they are registered except with permission of the Vice-President for Academic Affairs, after presenting written evidence of consultation with their professor and faculty advisor. Forms for this purpose can be obtained at the Office of the Vice-President for Academic Affairs. Such withdrawals will be indicated on the student's record with letter "W." By discontinuing a course without an official withdrawal, he automatically incurs an "F." *No official withdrawals will be given to Seniors, Juniors, and Sophomores later than one month after the opening of classes in each semester.*

A *Freshman* may, in his first semester withdraw without penalty of failure until one week after the mid-semester grading period. (See College Calendar.) He likewise must secure permission of the Vice-President for Academic Affairs after presenting written evidence of consultation with his professor and faculty advisor. Forms for this purpose can be obtained at the Office of the Vice-President for Academic Affairs.

ACADEMIC
CLASSIFICATION

A student is classified as a freshman if he meets the entrance requirements; as a second semester freshman when twelve semester hours have been earned; as a sophomore when 28 hours have been earned, as a junior when 58 semester hours have been earned; and as a senior when 92 semester hours have been earned. In addition, for purposes sophomore after two semesters as a full-time student and a junior after four semesters.

GRADING SYSTEM
AND QUALITY
POINTS

Grades are given in letter symbols.

Grades	Meanings	Quality Points
A	Excellent	4
B	Above Average	3
C	Average	2
D	Acceptable but Poor	1
F	Failing	0
W	Withdrawal	—
I	Incomplete	—
Z	Non-Credit/Audit	
N	Non-Pass (no credit)	
P	Pass (grade not included in index)	

A grade of A represents greater accomplishment in a four-credit course than does the same grade in a two or three-credit course. In order that a student's degree of success on the basis of both factors (amount of work represented by his courses, and the grades received) may be judged, use is made of the quality point. Quality points assigned to a grade multiplied by the credits allowed in a subject will give the total points accruing to the student for his achievement in that subject.

SCHOLASTIC INDEX

The index expresses the ratio of a student's total quality points to his total hours attempted. This ratio is found by dividing the sum of the student's quality points by the sum of hours attempted. Thus, if his points equal his hours attempted, his index will be 1.00, indicating that he is maintaining himself at the general level of D.

INCOMPLETE GRADE

A course in which the grade of I is received will not be considered in computing the index until the incomplete grade is removed. If the I is not removed within five weeks after the semester (except in Honors Courses), a grade of F will be assigned.

REPETITION OF COURSES

If a student repeats a course which he has passed, only the higher of the two grades which he received for the course is counted in computing his cumulative index. If he repeats a course in which he has failed, both grades are counted in computing his cumulative index.

PASS/NOT PASS OPTION

A student is permitted to take a maximum of 24 hours' credit under the pass/not pass option in courses other than those required in his major field or those required of all students by the College. To receive a **pass** a student must achieve a **C** or better; below a **C**, the student will receive a **not pass**, which will be recorded on his record as no credit. The student must decide within the normal time limits for dropping a course whether he will take a course for a grade or take it under the pass/not pass option. Also, no student will be allowed to receive credit by examination in a course under the pass/not pass option.

GRADE REPORTS

Grade reports for all students are made to the Registrar once each semester. Reports are issued to parents and students after each grading period. There are no mid-semester grades except for freshmen.

DEAN'S LIST

Students with a semester index of 3.50 or higher are placed on the Dean's List.





HONORS SEMINAR AND HONORS STUDENTS



To promote scholarship and initiative on the part of academically-superior students, those departments which offer a major also conduct an honors seminar. This is a course in independent study, directed reading and research in a student's field of concentration, the results of which are to be formulated in a research paper. To be admitted the student must have maintained a 3.00 cumulative index in his major field. Topics for research must be approved by the student's major professor. Application for the honors course is made with the Vice-President for Academic Affairs in the student's second-last semester; the student registers for the course in his last semester. Honors 51 may also be taken by students who have a 3.00 cumulative index in their major field even though they may not be otherwise classified as honors students. Students with a cumulative index of 3.00 or higher are classified as Honors Students. These students are eligible to complete residence requirements in seven semesters or the equivalent and are eligible to graduate with honors by taking Honors Course 51 in their major field.

INDEPENDENT STUDY

This program provides the opportunity for a student to pursue special topics, reading programs or projects within existing departments apart from courses listed in the catalog. The credit and grade thus earned will be entered on the student's academic record and count toward graduation. The number of independent studies a student may enroll in is limited to four. The student registers for the independent study during the regular registration period at which time he must present evidence of having secured the sponsorship of a faculty member.

TRANSFER POLICY

A student is granted honorable separation provided he is in good standing. This signifies that the student is eligible to continue, to return, or to transfer elsewhere. It implies good academic standing as well as good citizenship.

WITHDRAWAL
FROM THE
COLLEGE

Any student (except a graduating senior) who is aware that he will not register for the following semester is required to inform the Registrar and the Dean of Students. Any student who withdraws during the semester must notify the Dean of Students and the Registrar. Any student who withdraws without proper notification will forfeit honorable separation. Students who discontinue either during or at the end of a semester without having settled their financial obligations to the College will be refused honorable separation and official transcript of credit until all accounts are paid.

PROBATION AND
DISMISSAL

In order to graduate a student must have a cumulative index of 2.00. While this index is not required at any point in the student's career prior to graduation, he must nevertheless show a steady progress towards this goal. Thus it is required that the student must maintain a cumulative index of 1.80 during his Freshman year, a cumulative index of 1.80 during his Sophomore year, a cumulative index of 1.90 during his Junior year. In any semester in which he fails to achieve the required cumulative index he is placed on probation. If he fails to achieve the required cumulative index at the end of the next semester, he is dropped for poor scholarship. In individual cases, and only where special circumstances are involved, the student may appeal to the Academic Cabinet for continuation in the College. This appeal must be made in writing to the Vice-President for Academic Affairs within two days after he receives notification of his status. For purposes of computing the cumulative index, a summer session or interterm is considered as a part of the student's previous semester.

Students who, at the semester grading period, fail in as much as one-half of their work will be dropped for poor scholarship.

Students dropped for poor scholarship may, after the lapse of a semester, apply for readmission. If their application is approved, they will be readmitted on probation and must maintain the scholastic index required by their classification. If dropped for poor scholarship a second time, they are not eligible for readmission.

SUMMER SESSIONS

Saint Joseph's College offers an extensive, fully-accredited summer program. In addition to departmental course offerings, the College's summer program includes Liturgical Music Programs for both graduate and undergraduate credit, the Pre-College Skills Program and the Summer Scholarship Program.

ACADEMIC POLICIES

JUNIOR YEAR
ABROAD

Students who plan to spend their junior year abroad are to apply to the Office of the Vice-President for Academic Affairs at the beginning of their fourth semester. There are two types of programs available:

- a) programs involving instruction in a foreign language at a foreign university;
- b) programs involving instruction in English at a foreign university either by participating in the Institute of European Studies programs at the University of Vienna or at the Institute for American Universities affiliated with the University of Aix-Marseilles in Southern France.

Students on Junior Year programs are required to complete all graduation requirements.

ATHLETIC
ELIGIBILITY

A student is eligible to participate in intercollegiate athletic contests under the following conditions:

1. Be of approved physical condition as certified by the College physician.
2. Meet the requirements for classification as a regular full-time student at Saint Joseph's College.
3. Be enrolled as a full-time student both in his previous semester and in the present semester, unless he is a beginning Freshman.
4. Be in good academic standing as determined by the scholastic index requirement according to his classification.
5. Be eligible to play in a designated game according to the rules, policies, and approved practices of the *Indiana Collegiate Conference* and *National Collegiate Athletic Association* with respect to amateur standing, length of previous participation, institutional transfer and similar matters.

It is the responsibility of the players as well as the coaching staff to know and comply with the letter and the spirit of the athletic policies adopted and approved by the faculty.



AWARDS AND PRIZES

The recognition of merit in the individual is natural and proper as an incentive to personal and social progress. The awards and prizes listed below represent the College's attestation of the recipients' excellence in written and oral expression as demonstrated in the annual competitive exercises in a variety of fields. In all cases the College reserves the right to withhold an award if, in the opinion of the judges, none of the entries in a contest attains a standard of excellence sufficient to merit the distinction implied by the conferring of the award.

ERNST & ERNST SCHOLARSHIP AWARD

A plaque and a scholarship in the sum of \$500.00 are presented annually by the firm of Ernst & Ernst to a junior accounting major (to be used in his senior year) selected by the accounting faculty. The criteria for selection include: (1) major field of study must be accounting; (2) evidence of outstanding ability and potential; (3) the recipient should exhibit some evidence of interest in the field of public accounting; and (4) personal financial need should not be a factor.

THE JOHN P. HRUZIK ('52) GEOLOGY AWARD

Presented annually to a senior geology major chosen by the geology faculty and Geology Club.

INDIANA ASSOCIATION OF CERTIFIED PUBLIC ACCOUNTANTS, INC. AWARD

A plaque is presented annually by the IACPA to the outstanding senior accounting major. The selection of the recipient is made by the accounting faculty on the basis of criteria which include: (1) achievement of at least a 3.00 index in accounting and also on a cumulative basis; (2) willingness to accept responsibility; (3) extracurricular activities, particularly of a leadership nature; and (4) good moral character.

INDIANA ASSOCIATION OF CERTIFIED PUBLIC ACCOUNTANTS, INC. SCHOLARSHIP AWARD

This scholarship was established by the Educational Foundation of the IACPA to make scholarship funds available to qualified students for the study of accountancy. The grants are made available to students who are residents of Indiana and have completed five semesters of college work leading to a degree in accounting. The amounts of the scholarships are determined annually and are not to exceed \$1,500 per student. Applications are submitted to the Foundation Trustees who consider the following factors in determining the scholarship recipients: (1) academic achievement; (2) college activities; (3) financial need; and (4) appearance and personality.

THE RICHARD L. KILMER PRIZE IN HISTORY

An award of merit presented annually by the Department of History to a student who has excelled in the fields of history and its related areas. The award is in memory of Richard L. Kilmer, former Saint Joseph's professor who died in 1967.



**THE ADAM P.
LESINSKY AWARD**

Awarded annually to the outstanding member of the Saint Joseph's College Band.

**THE MARLOWE
FRANCIS McCREA
SCIENCE CITATION**

This award is presented annually to an outstanding student in the sciences by William J. McCrea, in memory of Marlowe Francis McCrea.

SAINT JOSEPH'S COLLEGE

NATIONAL HONORS SOCIETIES

On October 15, 1956, the Gamma Delta Chapter of Delta Epsilon Sigma, National Catholic Honors Society was installed at the College. Junior students who have a minimum of a B average are eligible for this distinction; in the spring semester of 1960, the College established a chapter of Phi Eta Sigma, a national honors society for freshmen and sophomores; eligible are freshmen with a 3.50 index.

FATHER RAPP
SPEECH AWARD

This award is sponsored semi-annually by the Department of Communications and Theatre Arts in honor of the Rev. Ildephonse Rapp, Professor Emeritus of Speech and Scholar of Rhetoric. Three trophies, first, second and third place, are awarded to the superior students selected from the basic courses in speech for participation in the contest. The awards are presented semi-annually at the conclusion of the final contest in the college theater. A plaque inscribed with the names of the first place winners is also maintained in the lobby of the auditorium.

SAINT JOSEPH'S
COLLEGE ALUMNI
BOARD SENIOR-OF-
THE-YEAR AWARD

Presented by the Director of the Alumni Association to the senior who has made outstanding contributions to his class and the College.

TRUSTEE'S
BUSINESS AWARD

A plaque and the sum of one hundred dollars, donated by the Board of Trustees of Saint Joseph's College, is annually awarded to the student graduating from the Department of Business or Accounting, who, in the estimation of a committee of instructors, is most deserving of the award in view of his superior scholarship and his leadership in extracurricular activities. In order that a student may be considered for the award he must have achieved a 3.00 cumulative index.

THE *WALL STREET*
JOURNAL AWARD

A year's subscription to the *Wall Street Journal* and a plaque are presented by the Department of Business Administration to a senior business major.

THE LOUIS B.
WHITE AWARD

This special citation of merit is presented annually by the Glee Club to its most outstanding member. The award was initiated in memory of Louis B. White, '52, former president of the Glee Club, who gave his life for his country in 1953.

J. KEVIN WOODS
MEMORIAL AWARD

This special citation of merit is presented annually by the Accounting Club to an outstanding senior. The award, in memory of J. Kevin Woods, accounting alumnus of 1966 who was killed in action in Viet Nam in 1968, was established by his family and friends. A monetary sum determined annually is also presented to the recipient. The following criteria should apply in the annual selection of the student who receives the award: (1) Must be an accounting major; (2) Must have maintained C grades or better; and (3) the senior accounting majors (not the faculty) select the student most deserving of the award.

**DEPARTMENTS,
MAJORS, MINORS
AND DEGREES
OFFERED**

Department	Major (24 hrs.)	Minor (12 hrs.)	Degree
Accounting-Finance	x	x	B.S.
Biology	x	x	B.A. or B.S.
Biology-Chemistry	x	x	B.A. or B.S.
Business Administration			
Management	x	x	B.A. or B.S.
Marketing	x	x	B.A. or B.S.
Chemistry	x	x	B.A. or B.S.
Computer Science		x	
Communications and			
Theatre Arts	x	x	
Economics	x	x	B.A. or B.S.
Education		x	B.S. in Educ.
Elementary	x		
Engineering			
Five-year program*			B.A. or B.S.
English	x	x	B.A. or B.S. in Eng. Ed.
Geology	x	x	B.A. or B.S.
History	x	x	B.A. or B.S.
Languages			
Classical	x	x	B.A.
French	x	x	B.A.
German	x	x	B.A.
Spanish		x	
Liturgical Music	x	x	B.A. or M.M.**
Mathematics	x	x	B.A. or B.S.
Mathematics-Physics	x		B.A. or B.S.
Medical Technology	x		B.S.
Music	x	x	B.A. or B.S.
Philosophy	x	x	B.A.
Physical Education	x	x	B.S.
Physics	x	x	
Political Science	x	x	B.A. or B.S.
Psychology	x	x	B.A. or B.S.
Sociology	x	x	B.A. or B.S.
Theology	x	x	B.A. or B.S.

*Five-year Engineering programs are available in Aeronautical, Agricultural, Chemical, Civil, Electrical, Industrial, Mechanical and Metallurgical Engineering. After three years at Saint Joseph's and two or three semesters at University of Detroit, Marquette University, New York University, Purdue University, Rose Polytechnic Institute, Saint Louis University, University of Illinois, University of Notre Dame or any accredited engineering college, the student may qualify for a B.A. degree from Saint Joseph's. After his fifth year, he qualifies for a Bachelors degree in Engineering from one of these universities.

**In affiliation with DePaul University.

GRADUATION REQUIREMENTS

MAJOR SEQUENCE

Ordinarily this will embrace a minimum of twenty-four semester hours of upper-level credit in a department. For a group major, thirty-six hours of upper-level credit are required in specified departments. *Students should observe special regulations under each department, especially regarding the lower-level prerequisites for major sequences.*

MINOR SEQUENCE

Ordinarily this will be a minimum of twelve semester hours of upper-level credit in a department chosen for its relation to the student's major sequence. Five courses in All-College Honors are acceptable as a minor sequence. The minor sequence is not a graduation requirement but, if a student completes such a sequence, it will be noted on his permanent record at his request.

ADVANCED AND SPECIAL EDUCATION (30-51) REQUIREMENTS:

The number of semester hours on the upper level required for graduation is a minimum of fifty. The program of advanced or special education will include the following:





SEMESTER HOURS AND QUALITY POINTS

1. A minimum of 124 semester hours and 248 points are required for graduation (a cumulative index of 2.00).
2. The number of quality points earned in courses of the major or group major sequence must equal at least twice the number of credit hours taken (a cumulative index of 2.00 in the major field).
3. Not more than 42 hours in a single department will be counted toward the minimum total required for graduation.

RESIDENCE

Completion of the college course requires normally that the student be in residence for eight semesters or the equivalent. Twelve hours of summer session credit are considered equivalent to one semester. Work completed at off-campus extension centers is accepted up to sixty semester hours. Not more than twelve within this maximum of sixty hours may be taken by correspondence. The last thirty semester hours and sixty quality points must ordinarily be completed on the Saint Joseph's College campus. For exception see, "Degree in Absentia," "Junior Year Abroad," and "Honors Students."

INTERTERM

Every student is required to participate in one Interterm Colloquium in his major before graduation. This colloquium should be taken preferably during the junior or senior year. This requirement becomes effective with the 1969 freshman class.

FOREIGN LANGUAGE

A modern or classical language is not required of all students. However, German is specifically required of chemistry majors; a foreign language is required of biology, English and philosophy majors and German or French is strongly recommended for students planning to enter graduate school. Any student who is a candidate for a bachelor of arts degree is required to take two years of a language or show a two-year competency and/or pass proficiency exams.

ELECTIVES

Additional courses may be necessary to complete the fifty upper-level hours and a total of 124 semester hours and a minimum of 248 quality points required for graduation.

SAINT JOSEPH'S COLLEGE

DOUBLE MAJOR

By fulfilling the requirements of two majors during the normal residence period, a student may graduate with a baccalaureate degree in the double major—for example, a bachelor of arts in English and history. This type of degree should not be confused with a group major program, such as biology-chemistry or mathematics-physics.

SECOND BACHELOR DEGREE

A student holding a bachelor's degree from any accredited college may qualify for a degree from Saint Joseph's College in a second discipline by spending the equivalent of at least one semester in full-time residence at Saint Joseph's and fulfilling the departmental requirements for the second major.

DEGREES
IN *ABSENTIA*

Students who have attained senior standing after the completion of three years of residence and who have then transferred to a school of law, engineering or medicine may secure the degree *in absentia*. In addition to the normal graduation requirements the candidate will be required to show successful completion of the first year's work in the professional school in which he has enrolled.

GRADUATION WITH
HONORS

Graduation with honors is conferred on the basis of successful completion of an honors seminar in the department of the student's major together with a cumulative index, through four years of 3.00 for the honor *cum laude*, of 3.50 *magna cum laude*, and of 3.75 for *summa cum laude*. A student working for a second bachelor degree will be permitted to graduate with honors if he maintains the required *cum laude*, *magna cum laude*, or *summa cum laude* index throughout the degree studies and completes the honors seminar requirement.



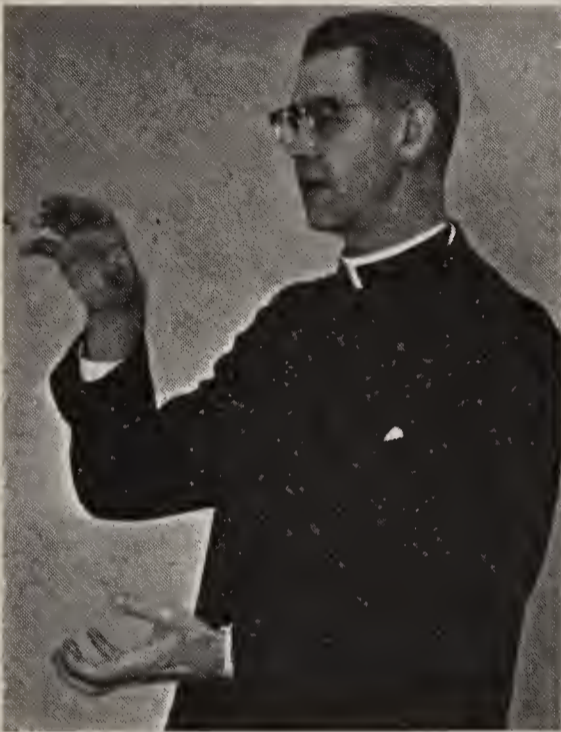
ACADEMIC POLICIES

GRADUATION WITH
HONORS OF
DEGREE *IN*
ABSENTIA

Students transferring to a professional school and planning to graduate *in absentia*, may graduate with honors by completing an honors paper in the semester preceding their transfer to a professional school. To be admitted, a student must ordinarily have a 3.00 cumulative index for the first two years. The grades which the student transfers from the professional school, when qualifying for graduation from Saint Joseph's, must, on an equivalent basis, qualify him for honors.

ALL-COLLEGE
HONORS

To qualify for All-College Honors, students must: 1. have the required cumulative index for graduation with honors and 2. have completed four Honors courses (numbered in the 60's) in any of the various departments plus Honors 51 in his major field.



GRADUATION
CHECK LIST

The student is ultimately responsible for the fulfillment of all that is required toward graduation. Ordinarily he is held to the requirements of the catalogue in force at the time of his first enrollment; all subsequent changes will be announced by official bulletin from the Office of the Vice-President for Academic Affairs and by the Registrar in his semester schedule of courses.

To assist the student in keeping a record of his academic health and growth, to furnish him likewise with a record that will make his visits with the counsellor or both helpful and meaningful, the checksheet on the following three pages is inserted in this catalogue. The column on the left side of each page is for the ordinary student who enrolls as a freshman at Saint Joseph's College; that on the right is for students who transfer from another college. The latter can obtain a statement of the equivalencies of his transferred courses from the Office of the Vice-President for Academic Affairs. Students should not fill in this checksheet until the grades and credits are actually acquired.

On the first of the following three pages is a brief summary of the graduation requirements of Saint Joseph's College which the student should consult from time to time and fill in as he progresses through his courses. On the next two pages are blanks for recording grades, hours, and quality points from which indices can be computed. (Directions for computing indices are found elsewhere in this catalogue. However, it is important to remember that a *cumulative* index is not just an average of semester indices. Rather, it is computed by dividing the total number of hours taken into the total number of quality points earned irrespective of when the courses were taken.)

INDICES

1. Total indices (compute all courses taken):

Year:	Sem. I	Sem. II	Cumulative
Freshman			
Sophomore			
Junior			
Senior			

2. Major indices (compute only upper-level courses in major sequence):

Year:	Sem. I	Sem. II	Cumulative
Junior			
Senior			

3. Cumulative total index for all four years:
(2.00 minimum for graduation)

4. Cumulative major index (upper level courses)
(2.00 minimum for graduation)

ACADEMIC POLICIES

HOURS

1. Total number of upper-level hours passed
(50 minimum for graduation)
2. Total number of hours passed
(124 minimum for graduation)
3. Total number of hours in major sequence
(24 upper-level minimum for graduation; 36 upper-level in
group-majors; 42 maximum which may be counted towards
graduation)

OTHER
REQUIREMENTS

1. Residence: 8 semesters (7 for honor students) Last 30
hours taken on campus
2. For Honors: Honors seminar paper approved and two copies filed
with Registrar



SAINT JOSEPH'S COLLEGE

GENERAL
EDUCATION
COURSES
(REQUIRED OF ALL
STUDENTS
ENROLLED AS
FRESHMEN PRIOR
TO SEPTEMBER,
1969)

Course:	No.	Hours	Grade	Transfer Student's Equivalent:
Art	27			
English	20			
History	(Non-U.S.)			
History	(Non-U.S.)			
Literature	I			
Literature	II			
Music	25			
Philosophy	11 or 23			
Philosophy	21			
Philosophy	43			
Philosophy—Upper level elective				
Sci/Math I				
Sci/Math II				
Social Sci.*				
Speech	15			
Theology	19			
Theology	20			
Theology—Upper level elective				
Theology—Upper level elective				

[illegible]

*Any course in the area of the Social Sciences, upper or lower level, fulfills this requirement.

Course:	No.	Hours	Grade	Transfer Student's Equivalent:
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Course:	No.	Hours	Grade	Transfer Student's Equivalent:
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Course:	No.	Hours	Grade	Transfer Student's Equivalent:
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SAINT JOSEPH'S COLLEGE

GENERAL
EDUCATION
COURSES
(REQUIRED OF ALL
STUDENTS
ENROLLED
AS FRESHMEN
BEGINNING
SEPTEMBER, 1969)

Course:	No.	Hours	Grade	Transfer Student's Equivalent:
Core	1	6		
Core	2	6		
Core	3	6		
Core	4	6		
Core	5	3		
Core	6	3		
Core	7	3		
Core	8	3		
Core	9	3		
Core	10	6		
Interterm		3		

MAJOR SEQUENCE

[illegible]

ELECTIVES AND/OR OPTIONAL MINOR SEQUENCE

[illegible]

ELECTIVES

[illegible]

STUDENT LIFE





STUDENT LIFE

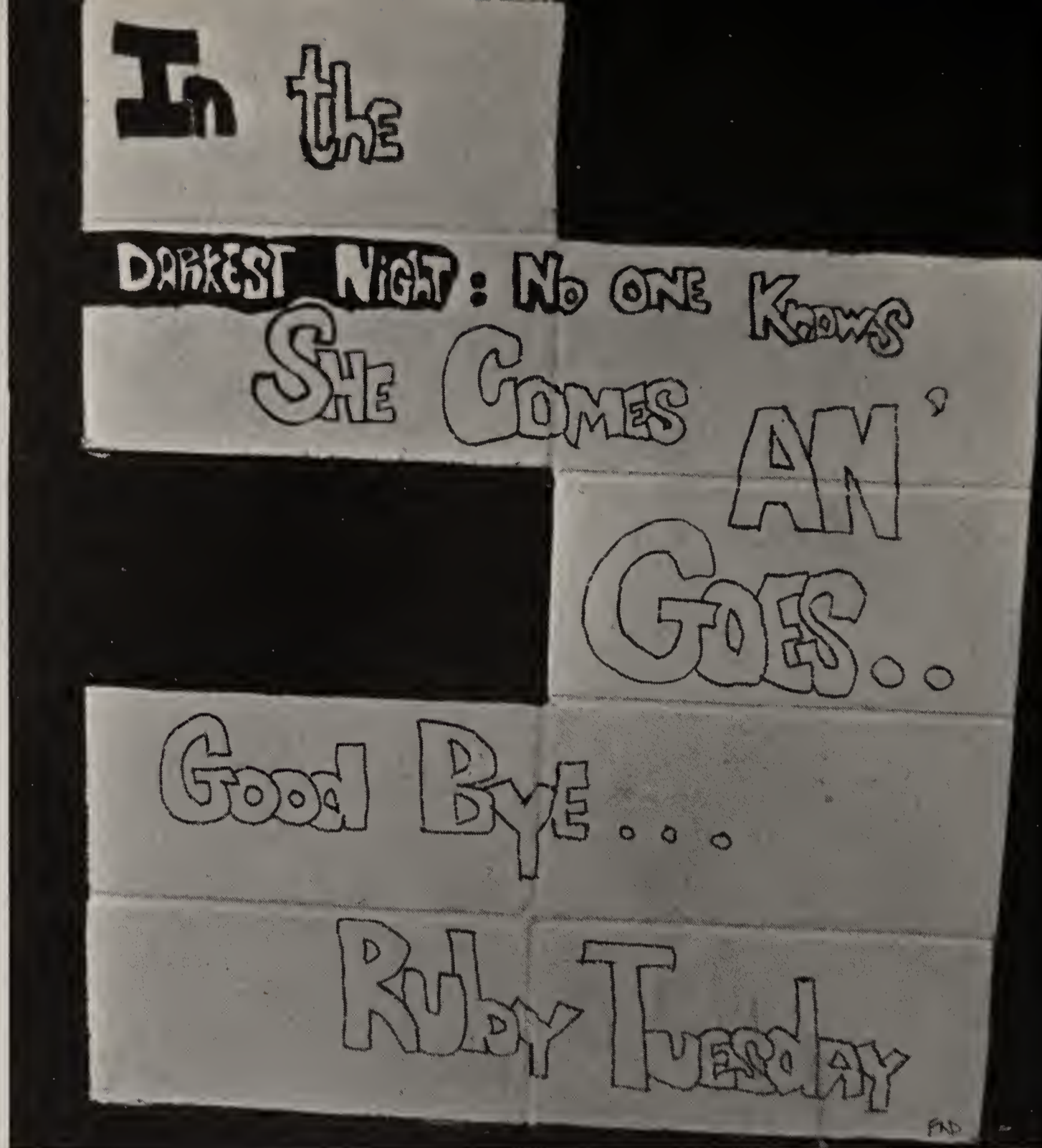
Attendance at Saint Joseph's is a privilege and not a right. The College assumes that men and women of college age have an adequate conception of the duties and responsibilities expected of them. It is understood that this privilege may be withdrawn from anyone who does not conform to the traditions and regulations of the College. Saint Joseph's at the same time, accepts an obligation to both students and parents to provide advisory and supervisory agencies.

Upon entering the college community, each student is furnished with a Student Handbook in which the specific rules of discipline and other regulations are contained. These policies are official statements from appropriate faculty, administration and student committees. Ignorance of these statements will, in no case, be accepted. All college policies apply to the student immediately upon his enrollment.

Every effort is made to encourage the student toward self-government in accordance with the ideals of obedience, honesty, courtesy and charity. When, however, a student manifests an inability or unwillingness to cooperate with the College in maintaining its regulations and policies, he subjects himself to disciplinary action. Matters of discipline are handled by Personnel Deans and the College Conduct Board. The jurisdiction of the Committee includes cases of dishonesty, intoxication, immoral and improper conduct, serious violation of campus regulations, or behavior prejudicial to the welfare of the student or the best interests of the college. The penalties imposed by the College Conduct Board may be probation, suspension, dismissal, or other action they may deem advisable.

In matters pertaining to social life, discipline, curriculum and scholarship, all students come under the counsel and supervision of the Vice-President for Academic Affairs, Vice-President of Student Affairs and the Personnel Deans, according to the respective jurisdiction of each office. Matters of health are in charge of the College Physician. Administrative officers, assisted by student-faculty committees, make it their purpose to become familiar with student problems and to secure the observance of adopted policies and faculty regulations.





STUDENT GOVERNMENT

All members of the student body of Saint Joseph's College are members of the Student Association and are governed by its constitution. Its student-elected officers, the four class presidents, and the chairman of the intra-club committee comprise the Student Association. The Student Association, or its committees, representing the Student Union, serves as a channel of communication and consultation between the student body and the faculty and administrative officers of the College.

ACADEMIC AND PROFESSIONAL INTEREST GROUPS

Accounting Club, A.I.B.S. (Biology), Future Executives, Geology Club, History Club, Political Science Club, Sociology Club.

FINE ARTS GROUPS

Columbian Players; marching band; concert band; pep band; glee club; Women's Chorus; Singing Seventeen; Sweet Sixteen; Blue Knight dance band and the Rite of Spring.

ACADEMIC SPECIAL INTEREST

College Republicans, Courier Club, Intercollegiate Studies Institute, John Brown Society, Peace Union, Time for New Thought, Young Democrats.

STUDENT LIFE

PUBLICATIONS

STUFF, the weekly student newspaper; MEASURE, the literary magazine, is published twice yearly; PHASE is the college yearbook.

SOCIAL CLUBS

Blue Key, *Gamma Delta Iota*, *Phi Kappa Theta*, *Sigma Alpha Omega*.

SOCIAL/SPECIAL
INTEREST CLUBS

Barbell Club, Black Student Union, Hockey Club, Monogram Club, Soccer Club.

SCHOLASTIC HONOR
FRATERNITIES

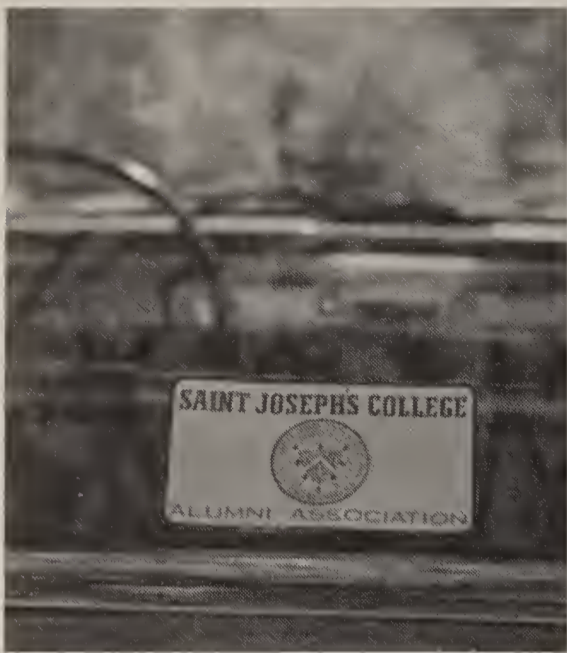
Phi Eta Sigma honors freshmen who have attained a 3.00 grade average, while *Delta Epsilon Sigma* recognizes upperclassmen who have maintained an average of 3.00 while at Saint Joseph's.

NATIONAL HONOR
FRATERNITIES

Blue Key Honor Fraternity annually elects juniors and seniors to its membership on the basis of leadership and service to the College.

The senior class nominates members of its class to *Who's Who in Indiana Colleges and Universities* on the basis of leadership, citizenship, scholarship, and potential after graduation.





PERSONNEL SERVICES

ALUMNI ASSOCIATION

Organized June 17, 1896, after the charter class of 1891 was graduated, the *Alumni Assciation* of Saint Joseph's College was established . . . "to cherish and strengthen the love of the graduates of Saint Joseph's College for their Alma Mater; to keep graduates of the different classes in communication with the college and with each other; and to bring about an acquaintance and friendship among the graduates of the different years that they may assist each other in attaining these ends." Membership is open to any graduate or former student who leaves in good standing. There are no dues. The college publishes an alumni newspaper which is mailed to all members nine times a year without charge. Alumni are invited to return to the campus each year for the annual homecoming weekend held during football season. Chapters of the association are established in cities throughout the country. The association assists the college in: fund raising; student recruitment; publicizing the college in local communities; and placement of graduates.

BANK

For the convenience of students, the College maintains a student deposit account in the Business office where students may deposit their savings. Students may also take out short-term loans from the College.

STUDENT LIFE

BOOKSTORE

The College Bookstore, located in Halleck Center, carries textbooks, stationery items, clothing, gifts, greeting cards, cosmetics and other supplies.

COUNSELING

The Director of Academic Guidance assigns to each freshman a member of the faculty to serve as an advisor in educational, vocational, and personal matters. Students above the freshman level are permitted to select counselors from a list prepared by the Director of Guidance. Each faculty counselor has access to grades, test results, health records and other pertinent information concerning his counselees.

HEALTH SERVICE

Before entrance to College all students are required to have a Student Health Record completed by their family physician attesting to their 'state of health.' The in-patient and out-patient sections of the Health Service are under the supervision of two registered nurses. The College physician has regular office hours and is available for any emergency. The services of a clinical psychologist are also available.

A voluntary accident and sickness insurance plan is available to all students. Information concerning this plan may be obtained from the Business Office.



LAUNDRY SERVICE

A private agency operates a commercial laundry on the campus and will handle campus laundry at a special rate. This agency also operates a laundromat where the student may use automatic washers and dryers.

MAIL, TELEGRAPH, BAGGAGE

Saint Joseph's College has its own post office and zip code. All mail should be addressed to Saint Joseph's College, Collegeville, Indiana 47978. All telegraph, express and baggage should also be addressed to Saint Joseph's College, Rensselaer, Indiana.

MILITARY SERVICE

Selective Service provides qualified students with various opportunities for deferment. The Office of the Registrar makes special efforts to acquaint students with these opportunities.

While Saint Joseph's does not offer R.O.T.C. programs, students are eligible to enlist in the United States Marine Corps Platoon Leaders Class. This program carries a draft deferment until graduation and leading to a commission and active duty in the Marine Corps. Representatives from other branches of the armed forces visit the campus to acquaint students with the opportunities for specialized service after graduation.

ORIENTATION PROGRAM

The College conducts an orientation program for all new students. Faculty members serve as counselors and assist new students in planning their programs for the first semester.

PLACEMENT PROGRAM

The Saint Joseph's College Placement Bureau is operated by an experienced director, who advises and assists students seeking employment after graduation. It is the responsibility of the bureau to develop and maintain communication channels among students, alumni, faculty, administrators, industry and government so that their respective needs and interests can be properly programmed into the College's curriculum.



STUDENT LIFE

RECREATION AND
ATHLETICS

In its athletic program, Saint Joseph's College is governed by the policies of the North Central Association of Colleges and Secondary Schools, the National Collegiate Athletic Association and by the rules of the Indiana Collegiate Conference. The Saint Joseph's College PUMAS participate in a complete program of intercollegiate football, basketball, track, golf, wrestling, bowling and tennis.

In addition to the intercollegiate program, the College offers a well-developed program of intramural activities. All students participating in intramural programs are urged to get proper insurance coverage. It is understood that the College will not be responsible for injuries incurred in intramural games.



RELIGIOUS SERVICES

The forming of a true Christian character in the student is the highest aim in education. All Catholic students are urged to make the annual retreat and to attend daily mass and benediction. Opportunity for confession is available daily. The program of religious exercises is arranged by the Chaplain, who is likewise available for consultation with any student.

TELEPHONE

Saint Joseph's College switchboard telephone number is (area code 219)—866-7111. The College switchboard is open from 8 a.m. until 2 a.m. each day during the school year. During these hours incoming calls can be placed through the switchboard to telephones on each floor of campus dormitories. When calling long-distance, parents or friends are advised to call person-to-person to insure that they are connected with the proper party. When the College switchboard is closed, callers should dial direct to the pay telephone in each campus hall. Pay phones in each dorm floor are as follows:

Aquinas Hall	second floor866-7902
second floor866-7968	third floor866-7901
Bennett Hall	Justin Hall West-Wing
first floor866-7943	first floor866-7997
second floor866-7983	second floor866-7998
	third floor866-7995
Drexel Hall	Merlini Hall
first floor866-7979	first floor866-7957
second floor866-7953	second floor866-7975
third floor866-7978	
Gallagher Hall	Noll Hall
first floor	first floor866-7959
second floor866-7947	Scharf House866-7992
Gasper Hall	Seifert Hall—East Wing (Rooms numbered 50 and below)
first floor866-7985	first floor866-7956
Halas Hall	Washburn Hall866-7936
first floor866-7984	White House866-7996
second floor866-7948	Xavier Hall866-7903
Justin Hall Lobby866-7533	second floor866-7902
Junstin Hall East-Wing	third floor866-7901
first floor866-7993	

TESTING PROGRAM

Students may take tests in various fields, the results of which are used chiefly to give the faculty counselor information needed in planning the program of his counselees.

CURRICULUM



CURRICULUM

ACCREDITATION

National Council for Accreditation of Teacher Education
North Central Association of Colleges and Secondary Schools
State of Indiana Department of Public Instruction for the training of
elementary and secondary school teachers

AFFILIATION

De Paul University*
Marquette University**
New York University**
Purdue University**
Rose Polytechnic Institute**
Saint Louis University**
University of Detroit**
University of Illinois**
University of Notre Dame**

MEMBERSHIP

Adult Education Association
American Association of Collegiate Schools of Business
American Council on Education
Association of American Colleges
Association of American Colleges for Teacher Education
Association of University Evening Colleges
College Entrance Examination Board
Commission on Christian Higher Education of the Association of
American Colleges
Indiana Conference of Higher Education
National Catholic Education Association
National Collegiate Honors Council

*Affiliated with the Graduate School of Music of De Paul University in
a program leading to the Master of Music degree in Church Music

**Affiliated on 3-2 Liberal Arts-Engineering Programs

Department of Accounting-Finance

The Accounting major provides the fundamental courses which are to prepare the student for entrance into the profession of accountancy, including public and private accounting practice or government service. Upon completion of this program of study, the student becomes eligible for the bachelor's degree in accounting, and he may secure through experience and state examination the status of certified public accountant.

In the field of public accounting there are opportunities in municipal and private auditing, system design and installation, cost and tax work. Federal and state governments provide opportunities for accountants in a wide variety of activities, including income tax and other taxation, farm administration, banking, interstate commerce, and the like. In private accounting practice, thoroughly trained accountants have opportunities for advancement into executive, financial, and auditing or cost positions.

The Finance major provides academic training in financial analysis and management. Courses offered give the student a general foundation in the acquisition and control of the finances of the national and multinational corporation. The Finance major is designed for securing positions in institutions such as banks and investment firms, insurance companies, commercial and industrial firms, and the financial regulatory agencies of the federal and state governments.

DEPARTMENTAL REQUIREMENTS: ACCOUNTING

1. Accounting 21-22 and Economics 21-22 are PREREQUISITES for all upper-level courses in accounting.

2. The requirements for a MAJOR sequence in accounting are twenty-four hours in upper-level courses, composed of the following: Accounting 31-32, 33, 35-36, 47 and 45-46. Economics 38 (statistics) is also required. The requirements for a MINOR sequence are any twelve hours in upper-level courses.

3. Approved sequence of courses for accounting majors: Freshman Accounting 21-22; Sophomore Accounting 23-24, 31-32; Junior Accounting 35-36, 33 (34); Senior Accounting 43, 45-46, 47.

SUGGESTED PROGRAM

1. In the freshman year, students majoring in accounting take: Core 1-2; Finance 21; Accounting 21-22; Economics 21-22. The elective recommended in the freshman year is Business 21.

2. On the upper level, and for those students wishing to obtain two degrees in accounting and finance, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second. The policies governing a second bachelor's degree are found under "Graduation Requirements" in this catalog.

ACCOUNTING - FINANCE

DEPARTMENTAL
REQUIREMENTS:
FINANCE

1. Finance 21, Business Administration 21, 22, Economics 21-22, and Accounting 21-22 are PREREQUISITES for all upper-level courses.

2. The requirements for a MAJOR sequence in FINANCE are twenty-four hours in upper-level courses composed of the following: Business Administration 38, Finance 33, 36, 40, 43, 44, 48, and Economics 35.

SUGGESTED
PROGRAM

1. Students in the freshman year in finance will take: Core 1-2; Finance 21; Business Ad. 22, Accounting 21, 22, Economics 21-22. Business Ad. 5-6 are recommended electives.

2. Students in the sophomore year will take Core 3-4, Finance 33, Economics 35 and Business Ad. 21. Recommended electives for the sophomore, junior and senior years are available in mimeograph form from your counsellor.

3. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

4. Non-majors interested in taking finance courses should consult a faculty member within the department.

TEACHER
EDUCATION
REQUIREMENTS

For those accounting or finance majors who wish to teach in secondary schools, an area major in social studies is available. The following courses are required: Core, professional education blocks, 6 hours American history, 3 hours world history, 3 hours political science, 3 hours sociology, 9 hours geography, 3 hours statistics, and 9 hours of upper level history or upper level economics.

COURSES IN
ACCOUNTING21-22. PRINCIPLES
OF ACCOUNTING

6 hours

A fundamental course in accounting. The course is presented so that the student is properly prepared in the theory and techniques of accounting that are necessary for the advanced course. Emphasis is placed on the solution of accounting problems.

23-24. BUSINESS
LAW

6 hours

This course is designed to acquaint the student with those phases of law most frequently met in business. The selected areas of study include contracts, negotiable instruments, agency, sales, partnerships, corporations, property and torts.

Prerequisite for Accounting 24: Accounting 23.

31-32.

**INTERMEDIATE
ACCOUNTING***6 hours*

An investigation into the form and content of financial statements with emphasis on accounting for assets, liabilities and corporate capital accounts. Techniques for analyzing and interpreting financial statements are also considered. Consideration is also given to the funds statement and cash-flow statement.

**33. COST
ACCOUNTING***3 hours*

A study of the basic terminology, concepts, and techniques of cost determination. Job order, process, and standard cost systems are explored through the medium of problems.

**34. ADVANCED
COST ACCOUNTING***3 hours*

This course is designed to familiarize the student with analytical interpretation of cost data. The areas of budgetary controls, direct costing, cost-volume relationships, and variance analysis are given special consideration.

Prerequisite: Accounting 33.

**35-36 ADVANCED
ACCOUNTING***6 hours*

Advanced partnership accounting problems and special transactions resulting from consignments, installment sales, and home office/branch accounting are considered. Special emphasis is placed on the preparation of consolidated statements of financial condition and income. Consideration is also given to statements required of fiduciaries and to governmental accounting problems.

**43. PRO-SEMINAR
IN ACCOUNTING
THEORY***3 hours*

An introduction, by means of directed reading and individual projects, to the methods of accounting research and the theory of accounts.

**45-46. INCOME TAX
ACCOUNTING***6 hours*

This course is designed to familiarize the student with the federal income tax laws by means of lectures and practical problems. It is devoted to an intensive study of the income tax laws as they apply to individuals, partnerships, and corporations.

47. AUDITING*3 hours*

A course designed for those intending to enter the profession of public or private accounting. The responsibilities of auditors and the regulations applying to the profession are studied, with special reference to the rules of professional conduct for members of the American Institute of Certified Public Accountants. Various types of audits and their purposes are analyzed. Certificates are studied and prepared.

ACCOUNTING - FINANCE

51. HONORS
SEMINAR IN
ACCOUNTING*3 hours*52. APPLICATION
OF DATA
PROCESSING TO
ACCOUNTING AND
BUSINESS RECORDS*3 hours*

The course deals with fundamental concept involved in converting a hand written and/or mechanical system of business records to either punch card or tape type data processing equipment. The course also includes the conversion period, the expansion and up dating period, and the problems related to these normal steps in the complete development of a data processing system for business enterprises.

53. INTERNSHIP

3 hours

To those students who qualify to participate in the Internship Program of the Accounting Department of Saint Joseph's College, 3 hours credit will be awarded for above average completion of the internship period with professional accounting firms. Achievement will be based upon the written report of the intern which will have to be submitted to the department. The report shall cover his activities, the conducting of audit in professional firms, and/or other suitable topics as elected by his faculty advisor. The department shall work in conjunction with the supervisor of interns with each respective professional firm which agrees to cooperate and work jointly with the Accounting Department of Saint Joseph's College.

55. INDEPENDENT
STUDY*1-4 hours*COURSES IN
FINANCE21. PERSONAL/
FAMILY FINANCE*3 hours*

This course is designed to assist the young person or young family in making sound financial decisions relative to the principles and practices of: budgeting, installment purchasing, using saving institutions such as banks or saving and loan associations, the wise purchasing and financing of a home, purchasing life and automobile insurance, preparing a will, estate planning, and purchasing common stocks.

No background in Accounting or Finance is required, and the course is open to all lower and upper level students regardless of their major field of study.

33. CORPORATION
FINANCE*3 hours*

A study of the financial problems involved in organizing and managing a corporation. Includes the financial aspects of securing capital through the issuance of securities, asset management, a review of traditional dividend policies, flow of funds analysis, receivership, bankruptcy, and related issues.

**36. INVESTMENT
ANALYSIS***3 hours*

This course is designed to familiarize the young person with techniques necessary to make sound financial decisions when contemplating the purchase of common stocks. Included are the treatment of investment objectives, investment institutions such as the organized stock exchanges and over the counter markets, sources of investment information, and the formation of appropriate investment policies for individuals and families. The traditional risk approach to investment analysis is used with the major semester project being an in depth security analysis.

**40. FINANCIAL
ANALYSIS AND
CONTROL***3 hours*

A study of the character and importance of the respective items in financial statements with critical analysis and interpretation of statements of business enterprises. With the knowledge gained from the foregoing, estimating income and expense, profit-planning and control, measuring operating efficiency, and enforcing budgets are reviewed.

Prerequisites: Finance 33

**43. THE AMERICAN
FINANCIAL SYSTEM***3 hours*

A critical study dealing with the institutional framework of the economy by which savings and credit are made available to business, consumers, and the government, together with an analysis of the impact of the various flows of funds on the total economy. Among the institutions covered are: federal financial institutions, commercial banks, savings and loan associations, insurance companies, investment and pension funds, investment banking, and the money and capital markets.

**44. INTERNATIONAL
FINANCE***3 hours*

This course encompasses the financial problems which arise in the conduct of foreign trade and other international transactions. The topics covered include: international payment systems, foreign exchange markets, exchange controls, variation of exchange rates, methods of financing imports and exports, balance-of-payments analysis, international financial institutions and capital markets, and problems of international liquidity.

**48. PROBLEMS OF
FINANCIAL
MANAGEMENT***3 hours*

This course presents a series of comprehensive financial problems by which it is intended to perfect the student's ability to utilize the methods and techniques of financial analysis and management acquired in previous courses. The case method is used throughout the semester.

**51. HONORS
SEMINAR***3 hours***55. INDEPENDENT
STUDY***1-3 hours*

Department of Art

The courses in this department are designed to provide training in the various arts, as well as an understanding and appreciation of artistic works. Certain courses are intended to equip the prospective teacher in the training of children in the arts.

11-12. BASIC DESIGN WORKSHOP

4 hours

This workshop stresses the elements of good design, including art for the home and community, as well as techniques. In the first semester emphasis is placed on the study of composition, the use of basic design shapes, the study of basic color theory, and the study of line mass relationships. The second semester provides the student with an opportunity for the practical application of the principles presented in the first semester and for experimentation in all media.

27. ART HISTORY AND APPRECIATION

2 hours

A course designed to furnish the student with a background for an understanding of the arts and to broaden his judgment in regard to what constitutes beauty and good taste. A brief survey of painting, sculpture, architecture, and the minor arts of all periods.

31-32. GENERAL DRAWING I AND II

4 hours

The first semester emphasizes free hand drawing of seen objects and still-life subjects. The course is planned to develop an understanding and awareness of form, light and shadow, line, pictorial composition and color. The second semester deals with extensive experimentation with a variety of media for a more versatile expression. Students work in pencil, pen and ink, charcoal, crayon, chalk and water color.

41-42. PAINTING I AND II

4 hours

The first semester deals with painting seen objects and still-life set-ups; understanding of oil paint as an expressive medium; and working with color, composition, various techniques and experiments. The second semester takes up figure painting and the more advanced techniques of expression in oil painting, use of water colors, and casein.

43-44. SCULPTURE WORKSHOP I AND II

4 hours

The first semester offers the student an opportunity to work in plaster casting and wood carving. Special emphasis is placed on creative form and good design. In the second semester the student has an opportunity to carve in stone and work with metal. Extra materials fee (in each semester): \$10.00.

47. ART SKILLS AND CRAFTS

3 hours

The fundamentals of drawing, pattern, composition, essentials of lettering and posters are intertwined with the materials, processes and products of industry. The student is shown how to organize this knowledge for effective teaching at the elementary level.

Department of Biology

The departmental courses in biology are intended to help the student acquire: 1. A knowledge of the basic principles of the biological sciences and some skill in the application of the scientific method to biological problems. 2. The necessary background for work in graduate or professional schools of medicine, dentistry, or biological science. 3. The biological background for certain professional careers such as teaching biology in secondary schools or working with biological surveys and in museum laboratories.

Several Harvey assistantships, both junior grade and senior grade, are offered annually to qualified biology or biology-chemistry majors. Freshmen, sophomores, and juniors are welcome to apply during the last month of their respective school years.

Interested and qualified majors in biology are encouraged to implement their training in zoology and/or botany by field work, marine or fresh water, in the taxonomic, embryological, and physiological areas, in any approved biological stations, e.g., in Michigan, Massachusetts (Woods Hole), Carolinas, Maine, Oregon, etc. With the previous consent of the department, credits received will be accepted here.

Students majoring in medical technology enroll in three years of course work on campus and one year in residence at an affiliated hospital in Ohio, Michigan, Illinois or Indiana. Most affiliated hospitals pay a stipend during residence. The fourth year students are trained in the technological aspects of the medical program. This constitutes the senior year and the student receives a B.S. in medical technology from Saint Joseph's.

Laboratory fees: Biology 11, 12, and 22, each \$7.50. Biology 32, 33, 37, 39, 40, 41, 43, 44, 45, 46, and 51, each \$10.00. Membership in A.I.B.S. for all biology and biology-chemistry majors is \$5.00 for each semester.

DEPARTMENTAL REQUIREMENTS

1. Biology 11-12 are *prerequisites* for all other courses in biology. (Note: For Biology 22, prerequisites: Biology 11 only; for Biology 25, no prerequisites.)

2. The requirements for a *major* sequence in biology are twenty-four hours in upper-level courses, including the following: Biology 37, 35-36 and 40; Chemistry 11-12, 31-32; Physics 21-22; and four semesters in one foreign language (German or French is recommended). The requirements for a *minor* sequence are any twelve hours in upper-level courses.

3. Majors in biology who plan to teach in high school must show credit in Chemistry 31-32 and Physics 21-22; they may substitute education courses for the foreign language requirements.

Note: See chairman of the department of education for other requirements.

BIOLOGY

4. A *group major* in biology-chemistry is offered for pre-medical students. The requirement is thirty-six hours in upper-level courses in biology and chemistry so distributed as to fulfill a minimum of sixteen in each department, including the following: **Biology 39 and Chemistry 31-32, 33 and 36**, plus the language requirement mentioned above in #2.

5. Teaching major. See the suggested program (Department of Education, p. 85).

5. INTERTERM
REQUIREMENT

All biology majors are required to make at least one field trip with the department during the interterm. Credit is given by registration in Biology 65.

SUGGESTED
PROGRAMS

1. Biology Major Freshman: Core 1-2; Chem 11-12; Bio 11-12; Math 11; Cs 10s. Sophomore: Core 3-4; Chem 31-32; Bio 37-40; Math 15; Elective. Junior: Core 5-6; Core 7-8; Phys 21-22; Bio (upper-level); Lang 1-2. Senior: Core 9-10; Bio 35-36; Bio (upper-level); Bio 65 (Inter-term trip); Lang 3-4; Elective.

2. Biology/Chemistry Major Freshman: Core 1-2; Chem 11-12; Bio 11-12; Math 11; Cs 10s. Sophomore: Core 3-4; Chem 31-32; Bio 37-40; Math 15; Elective. Junior: Core 5-6; Core 7-8; Phy 21-22; Lang 1-2; Bio (upper-level). Senior: Core 9-10; Bio 35-36; Chem 33; Biology 65 (Interterm Trip); Lang 3-4; Bio (upper-level); Chem 36; Chem (upper-level).

Biology/Chemistry majors are to observe carefully the required courses in the catalog. Some of these courses are only offered every other year. The student is however held responsible for meeting these requirements.

3. Medical Technology Major Freshman: Core 1-2; Bio 11-12; Chem 11-12; Math 11-15. Sophomore: Core 3-4; Bio 37-40; Phys 21-22; Electives. Junior: Core 7-8; Core 9-10; Bio 44; Bio 38; Chem 31-32. Senior: Off campus training in medical technology at hospital, usually 12 months.

COURSES IN
BIOLOGY11-12.
INTRODUCTION
TO EXPERIMENTAL
BIOLOGY

8 hours

An introductory discussion of the concepts and methods of biology with stress on laboratory investigations to emphasize biology as a science of enquiry. The open-end type of laboratory allows the student to develop areas of interest to his fullest capacity. This course is prerequisite to all other course offerings in Biology. Two lectures, one discussion period and one three-hour laboratory period each week. (Open to Biology majors in the freshman year, to non-majors in the sophomore year.)

22. HUMAN
ANATOMY AND
PHYSIOLOGY*4 hours*

An introductory course intended primarily for physical education majors. The course is recommended for students preparing to teach biology or health in high school. Three lectures and one two-hour laboratory period each week.

Prerequisites: Biology 11 or Biology 12.

25. PERSONAL AND
COMMUNITY
HEALTH*3 hours*

(Same as Physical Education 25. See course description there.)

30. INTRODUCTION
TO SCIENTIFIC
LATIN AND GREEK*1 hour*

A study of the elements of the Greek and Latin languages, together with their roots and the corresponding English derivations commonly used in biological, chemical, and medical sciences. Open to sophomores, juniors, and seniors. One 90 minute lecture each week.

31. METHODS FOR
TEACHING BIOLOGY*2 hours*

(For prospective Biology teachers only.)

32. CONSERVATION
OF NATURAL
RESOURCES*3 hours*

A study of the principles and methods of conservation of natural resources (soils, water, atmosphere, biotic, mineral, and human powers) with emphasis on biological conservation as practiced in the United States. Three lectures with field work each week.

33. ECOLOGY

4 hours

The study of organisms in relation to their environments, namely, physical: light, temperature and water; biogeochemical: chemical cycles, energy cycles and geological cycles; biotic: food chains and competition. Three lectures with field work each week.

35-36. SEMINAR
IN BIOLOGY*2 hours*

Intensive discussion of selected topics in biology led by senior members of A.I.B.S. with guidance from the staff. **Required for graduation of all seniors majoring in biology or biology-chemistry group sequence.** All A.I.B.S. members are expected to attend.

37. COMPARATIVE
VERTEBRATE
ANATOMY*4 hours*

The study of type forms of different classes of vertebrates, from the viewpoint of the morphological and physiological relationships of the various organs and systems. Two lectures and two two-hour laboratory periods each week.

BIOLOGY

38. GENETICS *3 hours*
A study of the general principles of heredity and the operation of hereditary factors in the origin and development of species and of individual traits.
39. METHODOLOGY AND INSTRUMENTATION *3 hours*
A resume of the more common, important lab methods and/or techniques and lab instrumentation which a student may not have encountered in his other courses. Methodology includes e.g., techniques of collection and preservation of animal and plant specimens, tissue culture, pure culture, other more recent lab techniques, together with current literature reviews. Instrumentation embraces demonstration and student uses of more sophisticated lab equipment, e.g., respirometry, Tecktronix, physiography, phase and fluorescence microscopy, spectrometry, electrophoresis and chromatography. This course (with appropriate modifications) satisfies the biology teacher requirement. One lecture and two two-hour lab periods each week.
40. EMBRYOLOGY *4 hours*
Laboratory study of the developmental anatomy of frog and chick embryos. Lecture emphasis is placed on an analysis of the processes of development and a study of elementary experimental embryology. Two lectures and two two-hour laboratory periods each week.
41. INVERTEBRATE ZOOLOGY *4 hours*
A study of the characteristics and relationships of representative species of invertebrates with reference to classification. This course includes some field work in ecological study, collection of specimens, their identification and preparation for laboratory and museum display. Three lectures and one three-hour laboratory period each week.
42. HISTORY OF BIOLOGY *2 hours*
A survey of the development of the science of biology. Particular attention is given to the interplay of philosophy and science and to the development of the conceptual framework of biology. Required readings and papers. Discussions and conferences with staff and with related departments.
- 43-44. MICROBIOLOGY *8 hours*
A study of bacterial structure, life activities, and classification; also introductory studies in immunology, mycology, parasitology, and virology. Laboratory methods of culture, isolation, and identification of various saprophytic and pathogenic organisms, particularly enteric forms; some serological techniques; water, milk, soil and food bacteriology. Two lectures and two two-hour laboratory periods each week.
Prerequisite: Chemistry 32.

**45. GENERAL
PHYSIOLOGY***4 hours*

The physiological processes at the organismic level are analyzed and correlated with the simpler manifestations at the cell level. Among the topics discussed are the structure and composition of cells, reactions of organisms to the environment, adjustment and maintenance of the internal environment, energy sources and utilization of energy for movement, production of electricity. Two lectures and two two-hour laboratory periods each week.

Prerequisites: Physics 22 and Chemistry 32.

**46. ANIMAL
HISTOLOGY AND
MICROTECHNIQUE**

A microscopic study of prepared normal vertebrate tissues and organs, with special reference to human tissues. Some laboratory is also devoted to preparation of small organisms and of animal and plant tissues. Two lectures and two two-hour laboratory periods each week.

**51. HONORS
SEMINAR IN
BIOLOGY***3 hours***55. INDEPENDENT
STUDY***1-4 hours***65. MARINE FIELD
TRIP**

Offered during the Interterm each year. Three weeks at a marine biology field station during which taxonomic collections and collecting techniques are the major work. May be elected more than once. **Required of all biology and biology-chemistry majors.**

Department of Business Administration

The courses in business administration have been designed to provide the knowledge required for positions in business. Their aim is to combine specific preparation with a background in general education, which with experience, should enable one to assume positions of higher responsibility more rapidly and competently.

DEPARTMENTAL REQUIREMENTS

1. Business Administration 21, 22, Economics 21-22, and Accounting 21-22 are *prerequisites* for all upper-level courses.
2. The requirements for a *major* sequence in *management* are twenty-four hours in upper-level courses composed of the following: Business Administration 31, 32, 35, 38, 41, and 42.
3. The requirements for a *major* sequence in *marketing* are twenty-four hours in upper-level courses composed of the following: Business Administration 34, 38, 39, 45, 49, 50.
4. The requirements for a *minor* sequence in *business administration* are twelve hours in upper-level courses including Business Administration 38. For a *minor* sequence in *management* or *marketing*, the remaining hours must be taken from these respective areas.

SUGGESTED PROGRAM

1. In their freshman year, students majoring in Business Ad. will take: Core 1-2; Accounting 21-22; Economics 21-22; Business 21, 22.
2. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

TEACHER EDUCATION REQUIREMENTS

For those business administration majors who wish to teach in secondary schools, an area major in social studies is available. The following courses are required: Core, professional education block, 6 hours American history, 3 hours world history, 3 hours political science, 3 hours sociology, 9 hours geography, 3 hours statistics, and 9 hours of upper level history or upper level economics.

COURSES IN BUSINESS ADMINISTRATION

21. INDUSTRIAL ORGANIZATION

3 hours

This course deals with the basic concepts of production management including plant location, allocation of resources, organization of labor. Attention is given to elements of organizational theory.

**22. PRINCIPLES
OF MARKETING***3 hours*

A study of the structure and process of marketing with emphasis upon the manner in which marketing distributes economic resources and stimulates demand. Consumer, industrial and government markets are analyzed and the resources of the economy are reviewed from the standpoint of the marketing problems they present. The organization of marketing is described with special attention devoted to channels of distribution and the various types of retailers and wholesalers. Descriptive cases and commodity analysis are used throughout the course.

**31. PRODUCTION
MANAGEMENT***3 hours*

The purpose of this course is to present a framework of principles, methods, procedures, and techniques of factory management, and to develop the student's ability to make sound managerial decisions, especially at the operational level. By means of selected case problems, emphasis will be placed upon the following topics: research, development, and engineering; manufacturing processes; the management of physical property; motion and time study; production planning and control; operations research; quality control, and cost control.

**32. PERSONNEL
MANAGEMENT***3 hours*

An analysis of the personnel function in the management of business enterprises. Problems in selection, placement, compensation, training, and maintenance of work teams in different types of business enterprise will be considered. Emphasis will be placed on both the functions of the personnel manager and the individual line managers and supervisors.

**34. SALES
MANAGEMENT***3 hours*

A study of the managerial functions of the sales manager, with particular reference to problems involved in investigations of marketing, planning and the sales effort, management of sales and service personnel, and control of the sales operations. The preliminary part of the course is devoted to a study of the principles and techniques of personal selling. This involves examination of the various aspects of selling such as: development of psychological rapport with prospects, organization of prospecting activities, analysis of public relations problems.

**35. PRINCIPLES OF
MANAGEMENT***3 hours*

The purpose of this course is to present a carefully organized system of concepts by which the basic meaning and the universal principles of management can be grasped. This course is limited to a treatment of that body of fundamental principles which underlies all management regardless of type or size of business. A study of the structure of industry in the U.S., the objectives and means of a business enterprise, the

functions of business, the environment of a business, the purpose and methods of management, administrative decision-making and the functions of management.

38. ELEMENTARY STATISTICS

3 hours

An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measures of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis on the interpretation and use of statistical analysis in business and economic problems.

39. RETAILING ORGANIZATION AND OPERATION

3 hours

This is a basic survey course which includes an analysis of the opportunities, development and present status of the retailing industry. Course content includes: Methods of store management, principles of store location, organization for control of merchandise, devices for improvement of store services, control of store expenditures, and coordination of credit, sales and other marketing activities.

41. MANAGERIAL DECISION-MAKING

3 hours

A course designed to present an organized and integrated approach to the managerial decision-making process. Emphasis will be placed on the following topics: the nature of the decision-making process; the stages of decision-making; the use of premises in decision-making; decision and implication; validating forms for decision-making; planning and decision-making; organizing for effective decision-making; controlling and decision-making; operations research; application of quantitative methods to the solution of business problems; and the implementation of decisions. Problems will be presented to give students practice and guidance in arriving at valid decisions.

42. SEMINAR IN ADMINISTRATIVE POLICY

3 hours

This course is designed to give students practice in policymaking thereby enhancing their ability to identify, analyze, interpret and evaluate business policies, especially those of large corporations. Through the study of actual business situations, the student will learn to diagnose a company's problems and to consider the various factors influencing managerial policy decisions. Cases are selected from a variety of industries to emphasize the universality of management problems and to give the student a facility for solving problems wherever they may develop. An attempt will be made to focus previously gained knowledge of accounting, finance, management, marketing and economics upon such matters as organizational, administrative, procurement, production, sales, labor, financial and expansion policies.

45. ADVERTISING:
PRINCIPLES AND
PROCEDURES

3 hours

A study of the role of advertising in the marketing structure and as a marketing tool of the individual firm. Consideration is given to the character of demand as seen by the individual firm and the opportunities for modifying it through the use of advertising. Content of the course includes an analysis of buying motives, social forces involved in consumer behavior, measurement of the market potential determination of proper advertising budgets, media allocations, and the devices used to measure the effectiveness of advertising campaigns.

49. MARKETING
RESEARCH

3 hours

The use of scientific method by business in gathering and utilizing marketing data in the efficient selling of merchandise. An analysis of advertising selling and price and product problems that market research may assist in solving; research methods and techniques; analysis and interpretation of typical marketing data; questionnaire building and methods of sampling; a survey of problems that a division of marketing is likely to face; analysis of markets through company records, published sources and original investigation.

50. MARKETING
MANAGEMENT

3 hours

A study of the marketing problems of the firm approached from a management point of view. Emphasis is placed on the development of the student's ability to analyze marketing situations, identify problems, determine solutions, implement corrective action, and plan strategy. The student learns how the marketing management functions of merchandising, channel selection; determination of brand policy and price policy, sales promotion, advertising and personal selling integrate to produce an effective marketing program.

51. HONORS
SEMINAR IN
BUSINESS
ADMINISTRATION

3 hours

55. INDEPENDENT
STUDY

1-3 hours

Department of Chemistry

The courses in the Department of Chemistry are designed to help the student: 1. To understand and appreciate, by means of basic courses, the principles of chemistry. 2. By means of carefully supervised laboratory work and by an introduction to the literature of the field: a) To observe carefully and accurately natural phenomena. b) to realize and appreciate the problem of the application of the theoretical principles to actual experimental work. 3. By a study of the literature and by means of a minor research problem to initiate the development of the skills and attitudes requisite for research in the field of chemistry. 4. To meet the basic requirements in chemistry for entrance into graduate school, medical school, or industrial chemistry.

Unless otherwise noted, laboratory periods are three-hour periods. Laboratory fees: Chemistry 11, 12, 45, and 46, each **\$7.50**. Chemistry 31, 32, 33, 34, 35, 36, 37, 39, and 51, each **\$10.00**. Chemistry 48, **\$5.00**.

DEPARTMENTAL REQUIREMENTS

1. Chemistry 11-12 are *prerequisites* for all upper-level courses in chemistry. It is further necessary, for the student majoring in chemistry, to show credit in Mathematics 11, 15, 25, 26.

2. The requirements for a *major* sequence in chemistry are twenty-six hours in upper-level courses, including chem 31-32, 33, 34, 45-46, 48 or 51; Physics 21-22, and four semesters of college German or the equivalent. The requirements for a *minor* sequence in chemistry are twelve hours in upper-level courses, including Chemistry 33.

3. For the *group major* in biology-chemistry, see the department of biology.

SUGGESTED PROGRAM

1. Freshman students majoring in Chemistry take: Core 1-2; Chemistry 11-12; Math 11, 15.

2. Requirements to be taken in the sophomore year are Chemistry 31-32, Math 26, and German 1-2.

3. On the upper-level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

4. Special requirements to be fulfilled in the junior and senior years are: German 21, 26 (or equivalent); Physics 21-22; and Humanities 25, 27.

**COURSES IN
CHEMISTRY****CHEMISTRY 1***3 hours*

This course in theoretical as well as practical chemistry is designed for students intending to teach in elementary school. It does not satisfy the chemistry requirement for a major or minor in science. Two lectures and one two-hour laboratory period per week.

**11-12. GENERAL
CHEMISTRY AND
ELEMENTARY
ANALYSIS***8 hours*

The introductory chemistry course stresses the general principles of chemical science, together with an exploration into the inorganic chemistry of the elements. The laboratory work includes a qualitative analysis for elements in the first semester and an introduction to quantitative analysis in the second semester. Two formal lectures, one quiz section, and three hours of laboratory work per week.

**31-32. ORGANIC
CHEMISTRY***8 hours*

A study of the structure, reactions, and properties of the aliphatic and aromatic carbon compounds. The applications of organic chemistry in industry and medicine are emphasized. In the laboratory the important methods and techniques are stressed. The material presented in the lectures is illustrated by the preparation and identification of typical compounds. Three lectures and one laboratory period each week.

Prerequisite: Chemistry 11-12.

**33. QUANTITATIVE
ANALYSIS***4 hours*

A study of the theoretical principles upon which analytical methods are based. Included is a survey of the field of analytical chemistry and a detailed investigation of the standard methods. Volumetric and gravimetric experiments are carried out in the laboratory. Three lectures and one laboratory period per week.

Prerequisite: Chemistry 11-12.

**34. INSTRUMENTAL
METHODS OF
ANALYSIS***4 hours*

A study of the principles of chemistry underlying the use of instruments in analysis and a survey of the field. The laboratory work consists of analysis carried out with representative instruments. Three lectures and one laboratory period per week.

Prerequisite: Chemistry 33.

**36. ELEMENTARY
PHYSICAL
CHEMISTRY***4 hours*

A course intended primarily for students who lack the mathematical preparation for the more extensive course, Chemistry 45-46. The

principles of physical chemistry are treated from a descriptive viewpoint with emphasis on solutions, colloids, and physical structure. This course may not be counted toward a major in chemistry. Three lectures and one laboratory period each week.

Prerequisites: Chemistry 11-12 and 33, and Physics 21-22, or 24-25-26.

37. BIOCHEMISTRY

4 hours

A study of the physical and chemical properties of carbohydrates, fats, proteins, nucleic acids, and enzymes. The chemical nature of enzymes, DNA and RNA are stressed. In the laboratory, both the qualitative and quantitative aspects of the above substances are studied. Three lectures, one laboratory period per week.

Prerequisite: Chemistry 31-32.

39. ORGANIC ANALYSIS

2 hours

A study of the characterization of organic compounds through elementary analysis, functional-group reactions, and derivatives. The lecture periods are devoted to a study of classical examples of analysis from chemical literature. One lecture and one laboratory period each week.

Prerequisites: Chemistry 31-32.

42. ADVANCED ORGANIC CHEMISTRY

3 hours

A continuation of organic chemistry in which structures properties, and reaction mechanisms of organic compounds are more thoroughly studied. Three lectures per week.

Prerequisite: Chemistry 31-32.

44. ADVANCED INORGANIC CHEMISTRY

3 hours

A continuation in the area of inorganic chemistry. This course includes a study of the electron structure of the atom, nuclear structure and its effect on the electrons, molecular structure, and specific advanced areas such as photo-chemistry, astro chemistry, and radioactivity. Three lectures per week.

Prerequisite: Chemistry 11-12.

45-46. PHYSICAL CHEMISTRY

8 hours

A fundamental course based on the principles of physical chemistry. The role of energy in chemical reactions is treated both from the descriptive and the analytical viewpoints. Three lectures and one laboratory period each week.

Prerequisites: Chemistry 11-12 and 33, Mathematics 11, 15, 25, 26 and Physics 21-22, or 24-25-26.

48. RESEARCH IN
CHEMISTRY*2 hours*

Early in the first semester, topics for research problems are chosen. Throughout the year, library and laboratory research is pursued. Progress reports are made and discussed.

Prerequisites: A reading knowledge of German.

51. HONORS
SEMINAR IN
CHEMISTRY*2 hours*

An alternate course for Chemistry 48, open to students who have made a B average in the chemistry courses of the junior year.

Prerequisites: A reading knowledge of German.

55. INDEPENDENT
STUDY*1-4 hours*

The Department of Communications and Theatre Arts

The Department of Communications and Theatre Arts has as its aim the following goals: 1. to instill an understanding and appreciation of oral rhetoric and its function in a liberal education; 2. to develop the student's resources, ability, and facility for the spoken communication of thought and emotion; 3. to prepare students for graduate study in speech; 4. to foster an appreciation of theatre in our culture.

DEPARTMENTAL REQUIREMENTS

1. Speech 15 is a *prerequisite* for all upper-level courses.
2. The requirements for a *major* sequence in speech are twenty-four hours in upper-level courses so distributed as to include 9 hours in General Survey, 9 hours in Public Address and 6 hours in Theatre. The major in speech is further required to show credit on the lower level in Speech 23 and 24. The requirements for a *minor* in speech are any twelve hours in upper-level courses. The department urges those who intend solely to minor in speech to select courses designed to complement their major programs study.
3. 12 hours of a foreign language for those who wish a B.A. in Communications and Theatre Arts.
4. No language is required for those students who wish a Bachelor of Communications and Theatre Arts. However, complementary courses may be taken in English, sociology, psychology and political science at the recommendation of the department.

SUGGESTED PROGRAM

1. Students planning to major in Communications and Theatre Arts will take: Core 1-2; Speech 15; Sociology 21; Political Science 21-22; Psychology 10.
2. Prerequisites and electives to be taken in the sophomore year include: Speech 23, 24; a foreign language, or other suitable courses.
3. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

COURSES IN SPEECH

15. FUNDAMENTALS OF ORAL COMMUNICATION

3 hours

A study of the types and modes of public address. Practice in speech preparation and presentation. The student delivers between five and eight speeches during the semester.

16. PHYSICAL BASES OF SPEECH

2 hours

Emphasis placed on achieving acceptable and pleasing voice and articulation. Content shall include: physical bases of speech, group reading, individual work, drills and exercises.

23. FORENSIC
LABORATORY*1 hour*

Applied practice in argumentation. Practice in formal and contest debating. Required of all speech majors.

24. THEATER
LABORATORY*1 hour*

Applied practice in theatre. Participation in all phases of theatre activity and performance. Required of all speech majors.

25. RADIO
LABORATORY*1 hour*

Applied practice in radio.

30. ADVANCED
ORAL
COMMUNICATION*3 hours*

Application in composition and delivery of the principles underlying all forms of speech. Practice in speaking on subjects of current interest and the student's choice.

31. GROUP
DISCUSSION*3 hours*

The content and methodology of participation and leadership in group problem-solving activities.

32. PLAY
PRODUCTION*3 hours*

A study and application of the technical aspects of play production as they relate to the theatre. Practice in making a prompt book, stage lighting, scene design, set construction, and costuming. Participation in student productions is required.

34. ORAL
INTERPRETATION
OF LITERATURE*3 hours*

The development of the student's abilities in reading aloud through exercises in the analysis and communication of the logical content of the printed page. Special attention will be given to a study of literature, prose and poetry, as they affect the understanding and performance of the oral interpreter.

35. ORAL
INTERPRETATION
OF THE MODERN
DRAMA*3 hours*

A study of the forms and content of the modern drama (Ibsen to the present day) as they affect the understanding and performance of the oral interpreter.

36. THEATRE
HISTORY I*3 hours*

A study of theatre practices and development from the Greeks to 1500. Special attention placed upon the emergence of drama as a distinct artistic form.

37. THEATRE
HISTORY II*3 hours*

A continuation of Speech 36 from 1500 to the twentieth century.

38. ACTING

3 hours

A basic course for the beginning actor. Emphasis placed on body movement, use of the voice, stage directions, characterization, dramatization, emotional recall and vocal interpretation of the play script. The student will present scenes and short acts in class for critical purposes. Opportunity for participation in college productions.

40. PERSUASION

3 hours

Critical evaluation of the major principles and techniques of persuasion as they relate to public address and informal discussion.

41-42. SHAKESPEARE

6 hours

A critical study of Shakespeare's life and works. The first semester includes the author's works to approximately 1600; the second semester, his later writings.

43. ELEMENTS OF
SPEECH
IMPROVEMENT*3 hours*

Diagnosing simple speech defects and disorders, nasality, lisping, omissions, additions, substitutions, inversions. Theory of improving simple defects and disorders.

45. BASIC RADIO
AND TELEVISION
THEORY

Study of radio and television equipment and production. Opportunity is offered to work for credit on radio station WOWI and produce own shows for video tape recordings.

46. THE DRAMA

3 hours

A survey of the chief trends in English and American drama from the beginnings to the present, with emphasis on the reading of representative plays exclusive of Shakespeare's.

48. PROFESSIONAL
SCIENTIFIC
COMMUNICATIONS

Research techniques in writing and presenting scientific and technical reports in science and industry, the gathering and presenting of statistical findings, organizational techniques, use of visual aids, oral presentation of papers in these areas.

51. HONORS
SEMINAR*3 hours*55. INDEPENDENT
STUDY*1-3 hours*

Department of Computer Science

Computer Science is concerned with the representation, storage, manipulation, retrieval and presentation of information. It deals with problems of designing the machines that perform these operations, plus implementing the means of communication between machines and between man and machine. The theoretical foundation of Computer Science overlaps other fields such as pure and applied mathematics, numerical analysis, philosophy, linguistics, psychology, social sciences, business administration and biology.

Laboratory fees: C.S. 10, 22, 24, 33, \$10.00 each.

COURSES IN COMPUTER SCIENCE

10. INTRODUCTION TO PROGRAMMING FOR DIGITAL COMPUTERS

3 hours

Programming of digital computers in a problem-oriented language (FORTRAN). Problems will be selected from the areas of numerical and non-numerical applications. The course is intended to prepare the student to use the computer in the physical and non-physical sciences.

10-S. NUMERICAL PROCEDURES

3 hours

Numerical and computing procedures, slide rule usage, evaluation of single, double, and triple sums, finite difference calculus, including numerical integration, interpolation, summation by parts, and simple difference equations. Programming of digital computers in a problem oriented language (FORTRAN). Problems will be selected from areas of numerical and non-numerical applications. The course is intended to prepare the student to use the computer in the sciences. **NO PRE-REQUISITE.**

22. INTRODUCTION TO ALGORITHMIC PROCESSING — COMMERCIAL

3 hours

Introduction to the intuitive notion of an algorithm; representation of algorithms in narrative form as flow charts and as computer programs; a general structure of computers; computer experience using a procedure-oriented language in programming algorithms such as those used in general data processing applications.

Prerequisite: CS 10.

24. INTRODUCTION TO ALGORITHMIC PROCESSING — SCIENTIFIC

3 hours

Introduction to the intuitive notion of an algorithm; representation of algorithms in narrative form as flow charts and as computer programs; a general structure of computers; computer experience using a procedure-oriented language in programming algorithms such as those used in elementary numerical calculations; definition and use of functions, sub-routines and iterative procedures.

Prerequisite: CS 10.

COMPUTER SCIENCE

31. LOGIC AND
FINITE AUTOMATA*3 hours*

Examples of informal axiomatic theories and their interpretations, use, or propositional calculus. Discussion of Turing machines, Post systems, regular expressions, and their relation to finite automata.

Prerequisite: CS 10.

33. PROGRAMMING
LANGUAGES*3 hours*

Syntax and semantics of several classes of programming languages (i.e. FORTRAN, COBOL, ALGOL, APL, RPG, PL-1). Students are expected to write, debug, and run programs in several of the major languages discussed.

Prerequisite: CS 22 or 24 or consent of instructor.

34. COMPUTING
AND
PROGRAMMING
SYSTEMS*3 hours*

Computer organization as it affects programming. Number and symbol representation codes. Error detecting and correcting codes. Functional characteristics of the major units of a digital computer. Sequential and random access storage systems. Input-output channels, buffering, interrupt handling.

Prerequisite: CS 22 or 24 or consent of instructor.

39. NUMERICAL
ANALYSIS
(Math 39)*3 hours*

Finite differences, numerical differentiation, integration, solution of equations and differential equations. Special reference to the use of digital computers.

Prerequisite: CS 10.

52. APPLICATION
DATA PROCESSING
TO ACCOUNTING
AND BUSINESS
RECORDS (Acct. 52)*3 hours*

Deals with fundamental concepts involved in converting a hand written and/or mechanical system of business records to either punch card or tape type data processing equipment. The course also includes the conversion period, the expansion and updating period, and the problems related to these normal steps in the complete development of a data processing system for business enterprises.

Core Curriculum

The general education requirements of the College are incorporated in a single four-year sequence common to all students and totalling forty-five credit hours. The program began with the freshman class of 1969-70 and is required of all student registering with that and the following classes. The student will take the Core course that is being offered to his class. For example, a student transferring from another college in February as a second-semester sophomore would register for Core 4. The only exception provided for in this catalogue is that students in an approved 3-year science sequence will take Core 7, 8, 9 and 10 in their junior year. Approved electives will make up the required hours in general education for Core courses unavoidably missed or unsuccessfully taken.

The Core curriculum is intended to give the students and faculty of the College a common experience in reflecting on man, his situation, civilization, and culture, his achievements and problems, his meaning and purpose. The program is made up of extensive reading, writing, and discussion, as well as lectures and other presentations, and is designed to promote personal awareness and social responsibility along with readiness and skill in thought and communication. Although the content will vary to meet new problems, the general outline is as follows:

CORE 1. THE CONTEMPORARY SITUATION

6 hours

A study of the human situation since the second World War, of man as he is now with his crises and achievements. The course aims at student involvement in his world through reflection and communication. Required of all freshmen.

CORE 2. THE MODERN WORLD

6 hours

A study of the larger movements of civilization between the seventeenth century and the second World War with emphasis on contemporary relevance. Required of all freshmen.

CORE 3. HEBREW AND GRECO-ROMAN HERITAGE

6 hours

A study of Greco-Roman and Semitic contributions to Western culture, stressing the intellectual, artistic, religious, and social contributions of this period. Required of all sophomores.

CORE 4. MIDDLE AGES

6 hours

The emergence of Europe from the end of the Roman period through the Middle Ages and the Renaissance. Required of all sophomores.

CORE CURRICULUM

**CORE 5-6.
THE
FOUNDATIONS
OF SCIENCE***6 hours*

This course, extended through 2 semesters, will study developments in natural science and their theoretical and practical impact on the human situation. Required of all juniors except those in an approved 3-year science program.

**CORE 7-8.
NON-WESTERN
STUDIES***6 hours*

An examination of a civilization other than our own. By studying another culture the student gains a new perspective and insight into the institutions and thought of the Western world. Extended through two semesters and required of all juniors.

**CORE 9.
CHRISTIAN
ANTHROPOLOGY***3 hours*

This course is an attempt to bring the entire curriculum into relation with the Catholic faith. It will study and discuss the main philosophical and theological principles of a Christian view of man in his world and before God. Required of all juniors and seniors in an approved 3 year science sequence.

**CORE 10.
CHRISTIANITY
AND THE HUMAN
SITUATION***6 hours*

A consideration of contemporary problems in the perspective of Christian faith. Special attention is given to the philosophical and ethical aspects of a student's major and chosen vocation. Required of all juniors and seniors in an approved 3-year science sequence.

Department of Economics

The program in economics has the following objectives: 1. To enable the student to gain a basic understanding of our economic system, to provide a field of concentration for those students who wish to pursue economics as their major study, and to offer those courses which are appropriately a part of the preparation for the study of business, government, journalism, and law. 2. To provide the requisite training for the teaching of economics in high schools, for the pursuit of graduate courses in economics, and for entrance into graduate schools of business.

DEPARTMENTAL REQUIREMENTS

1. Economics 21-22 are *prerequisites* for all upper-level courses. Students majoring in economics are likewise required to take Accounting 21-22.

2. The requirements for a *major* sequence in economics are twenty-four hours in upper-level courses, including Economics 31, 32, and 38. Bus. Ad. 41 (Managerial Decision-Making) may be included in these 24 hours. The requirements for a *minor* sequence are any twelve hours in upper-level courses.

3. Students expecting to pursue graduate work in economics are advised to take Mathematics 12, 15, 25, 26 and four semesters of credit in French or German.

SUGGESTED PROGRAM

1. In the freshman year it is suggested that students majoring in Economics take: Core 1-2; Math 12-15; Economics 21-22; Pol. Sci. 21 or 22.

2. In the sophomore year it is suggested that students majoring in Economics take: Core 3-4; Accounting 21-22; Math 25-26; foreign language.

3. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

COURSES IN ECONOMICS

21. PRINCIPLES OF ECONOMICS: MACROECONOMICS

3 hours

A study of the principles and problems connected with the level and fluctuation of national income and employment and the economics of growth.

22. PRINCIPLES OF ECONOMICS: MICROECONOMICS

3 hours

A study of the principles and problems connected with the production, exchange, and consumption of economic goods, and the principles of international trade.

ECONOMICS

31. ADVANCED
INCOME ANALYSIS*3 hours*

An intensive study of national income accounting and the theory of national income determination with special emphasis on the policy implications of the analysis.

32. ADVANCED
PRICE ANALYSIS*3 hours*

An intensive study of the theory of price in both the output and input markets with special emphasis on the application of modern tools of analysis to concrete business and public problems.

33. DEVELOPMENT
OF ECONOMIC IDEAS*3 hours*

A historical survey of the concepts and tools of economic theory, including a study of the influence of economic, social, and political institutions on economic thought. **Offered every other year.**

35. MONEY AND
BANKING*3 hours*

A study of the theory of money, monetary standards, banking principles, and monetary theory with special emphasis on the financial institutions of the United States.

36. COMPARATIVE
ECONOMIC SYSTEMS*3 hours*

A study of the economic systems existing in the contemporary world with special emphasis on the comparison of these systems with the mixed enterprise system of the United States. **Offered every other year.**

37. GOVERNMENT
AND BUSINESS
(Bus. Ad. 37)*3 hours*

A study of the foundations for government intervention in business and the activities in which it currently engages in relation to business, with emphasis on federal legislation as this applies to social security, labor relations, and the maintenance of competition.

38. ELEMENTARY
STATISTICS
(Bus. Ad. 38)*3 hours*

An introduction to the fundamentals of modern statistics. Topics to be discussed include the following: descriptive statistics, frequency distributions, measures of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis is on the interpretation and use of statistical analysis in business and economic problems.

No prerequisite.

40. PUBLIC
FINANCE
(Pol. Sci. 40)*3 hours*

A study of the principles of finance in government. Topics to be considered will include public revenues and expenditures, taxation, public debt, governmental budgeting, and fiscal policy.

42. AMERICAN
ECONOMIC HISTORY
(History 40)

3 hours

43. LABOR
PROBLEMS AND
LEGISLATION

3 hours

A study of the issues involved in labor economics, with emphasis on the role that employers, unions, and the government may play in their solution. The course concentrates on the size and composition of the labor force, the history of the labor movement, the issues involved in collective bargaining, wages and hours, unemployment, and social security.

46. QUANTITATIVE
ANALYSIS

3 hours

A survey of the mathematical formulation of the theories of consumer choice, production theory, market structures, growth models and programming techniques.

Prerequisites: Economics 31-32, Mathematics 25.

47. ECONOMIC
GROWTH

3 hours

An examination of the process of growth with particular emphasis on the problems and alternatives confronting the underdeveloped countries.

48. INTERNATIONAL
TRADE

3 hours

A study of the underlying basis of international trade, balance of payments adjustments, and the methods of international payments, together with an examination of the foreign trade position, the tariff policies, and the commercial agreements of the United States.

49. SOCIO-
ECONOMIC
PROBLEMS AND
CHRISTIAN ETHICS
(Theo. 49)

3 hours

This course aims to set forth the social teaching of the Church, with emphasis on the social encyclicals and other recent papal pronouncements and to apply this teaching to selected current socioeconomic problems.

50. SEMINAR

3 hours

The seminar will be directed to a discussion of current issues in economics which are not covered in the content of other courses.

51. HONORS
SEMINAR IN
ECONOMICS

3 hours

55. INDEPENDENT
STUDY

1-3 hours

Department of Education

The Department of Education is designed to offer the student a knowledge of education in its theoretical and practical phases. Courses in the history and philosophy of education present the student the means of employing the best of mankind's thought in the betterment of today's schools. Other courses are offered with the express purpose of acquainting the student with the professional skills and competencies that will be needed in the exercise of teaching duties.

State requirements for certificates vary, but in general all states call for these basic requirements: 1. a four-year curriculum leading to the Bachelor's degree; 2. academic credit in major and minor areas; or, in the case of elementary teachers, adherence to a specified curriculum; 3. professional courses in education; 4. recommendation by the license advisor.

DEPARTMENTAL REQUIREMENTS

At Saint Joseph's College only students of definite professional promise are admitted into the Teacher Education Program. Students wishing to become certified professional teachers at the elementary or secondary level should apply the first semester of their junior year. Application forms can be obtained from the education office. Students are expected to have at least a 2.25 grade average, a healthy interest in teaching and the personal and social qualities basic to sound teaching.

Students have an option of following programs leading to professional certification in elementary or secondary education. These programs are all authorized by the State of Indiana in accordance with the provisions of Bulletin 400, Division of Teacher Education and Certification, Indiana State Department of Public Instruction. More importantly, they are all approved by the National Council for Accreditation of Teacher Education (NCATE). This assures the student that he is pursuing a program that will qualify him for certification in most states. Students should raise questions about specific state license requirements with the institutional license advisor.

At the elementary level the department offers a bachelor of science degree in elementary education. The following courses are required: core, 9 hours of science (Chem 1, Physics 1, Geol. 24), 9 hours of mathematics (1, 2, 3), 3 hours of art (47), 4 hours of music methodology (28, 29), physical education in the elementary school (41), advanced writing and grammar (English 46, 47), 6 hours of American history, tests and measurements, growth and development, educational psychology, historical and philosophical foundations of education, methods in social studies, speech, math and science, sociology of education, the language arts block, remedial reading, student teaching and electives to total 124 semester hours.

At the secondary level teacher education programs are offered in the following majors: biology, chemistry, English, mathematics, music, physical education and health, physics, social studies and speech. Minors are offered in these areas as well as in Latin, French, German, Spanish and psychology. The specific programs can be found in the appropriate departmental introduction. Students are reminded that teacher education programs are governed by both state and college regulations so the outlined programs should be carefully followed.

A student who is preparing to teach in high school should major in the subject area in which he intends to teach. He will be advised in his major by his appropriate Teacher Education Committee representative. Elementary education students are advised by members of the education department. Students can obtain recommended programs for all the majors and minors from the education office. They should study these with care for they are designed to meet college requirement and professional education requirements. *In most cases these requirements cannot be changed.* If a student is in doubt he should be advised by a member of the education department. The professional education block required of all teachers consists of the following courses: historical and political foundations of education and philosophical foundations of education (30, 47), growth and development (31), Educational Psychology 1 and 11, the appropriate special methods course and student teaching.

STUDENT TEACHING REQUIREMENTS

Student teaching assignments are made in cooperating public and independent schools in the state. Application for student teaching should be made in the last semester of the junior year. Placement is made by the Director of Student Teaching after approval by the Teacher Education Committee.

To qualify for student teaching a student must normally

- 1) Have a 2.25 grade average.
- 2) Have been in the teacher education program for one semester doing at least C work.
- 3) Have passed at least three of the following: Education 30, 31, 32, 33.
- 4) Have completed the required number of laboratory experiences.

COURSES IN EDUCATION

EDUCATION

15. PROFESSIONAL
LABORATORY
EXPERIENCE:
OBSERVATION*0 hours*

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on the growth and development area. Required of all first semester sophomores in the teacher training program.

16. PROFESSIONAL
LABORATORY
EXPERIENCE:
OBSERVATION*0 hours*

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on the psychology of learning. Required of all second semester sophomores in the teacher training program.

17. PROFESSIONAL
LABORATORY
EXPERIENCE:
OBSERVATION*0 hours*

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on classroom planning, methodology and curriculum materials. Required of all first semester juniors in the teacher training program.

18. PROFESSIONAL
LABORATORY
EXPERIENCE:
OBSERVATION*0 hours*

Ten to fourteen hours of observation in actual classroom settings. The emphasis will be on evaluation in the teaching process. Required of all second semester juniors in the teacher training program.

30. EDUCATIONAL
THEORY I:
HISTORICAL AND
POLITICAL
FOUNDATIONS*2 hours*

An historical study of the evolution of contemporary educational theory and practice. Principles and issues will be viewed in a social-cultural context.

31. HUMAN
GROWTH AND
DEVELOPMENT*2 hours*

A study of the psychological characteristics of child and adolescent development with special attention given to physical, emotional, social, intellectual and religious behavior. Development is viewed genetically with emphasis placed on the normality of behavior characterizing the various stages of childhood and adolescence.

32. EDUCATIONAL
PSYCHOLOGY I:
PSYCHOLOGY OF
LEARNING*2 hours*

The course in educational psychology aims to give the student an understanding of the characteristics of human behavior and the factors which affect its development. Emphasis is placed on those basic facts and principles that are generally accepted by today's educators and that can be integrated into the student's own experience and made to function in his educational career.

33. EDUCATIONAL
PSYCHOLOGY II:
TESTS AND
MEASUREMENTS*2 hours*

The following topics are studied in this course: history of the testing movement; principles of test construction; qualities of and evaluation of teacher and standardized tests; a study of the various types of indi-

vidual and group tests; basic statistical concepts, the application of tests to educational and psychological problems, and the evaluation, interpretation, and application of test results; practice in taking and giving tests in actual educational and psychological situations.

34. ELEMENTARY STATISTICS

3 hours

An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measures of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis is on the interpretation and use of statistical analysis in the social sciences.

Note: Students who show credit in Math 13 must take Math. 38 instead of Educ. 34.

35. SOCIOLOGY OF EDUCATION

3 hours

A study of the school as a social system as well as a basic institution in society. Emphasis will be placed on the sociological dimension of learning through reviews of contemporary social science research. (Same as Sociology 35).

36. ELEMENTARY SCHOOL CURRICULUM

3 hours

A general introduction to the principles and trends in the various areas of the curriculum in the light of modern concepts of child development.

38. COUNSELING AND GUIDANCE

2 hours

Principles and techniques of personal counseling and of educational and vocational guidance of high school students. Attention is given to the use of appropriate tests, rating scales, interview techniques, organizing of the guidance program, placement and follow-up services in the high school.

40. CHILDREN'S LITERATURE

2 hours

A survey of traditional and contemporary literature for children from kindergarten through junior high school. Emphasis is placed on types of literature, methods of use, authors, and illustrators.

44. GENERAL METHODS

1 hour

This course deals with general principles of effective teaching in secondary schools. Topics for discussion include: selection and arrangement of subject matter; motivation and direction of learning activities; discipline; questioning, assignment and review procedure; problem-project teaching and socialized recitation; development of appreciation, attitudes and ideals.

Note: may be taken only in conjunction with Educ. 91.

**47. EDUCATIONAL
THEORY II:
PHILOSOPHICAL
FOUNDATIONS**

2 hours

A study of contemporary major philosophical models of education designed to aid students in developing and integrating their own philosophy of education. Student teaching must precede or be taken concurrently with this course.

**51. HONORS
SEMINAR IN
EDUCATION**

3 hours

**55. INDEPENDENT
STUDY**

1-3 hours

**METHODOLOGY
COURSES FOR
ELEMENTARY
TEACHERS**

**70. METHODS IN
MATHEMATICS AND
SCIENCE FOR
ELEMENTARY
TEACHERS**

3 hours

Techniques and methods of teaching elementary mathematics and science. Curriculum development, laboratory methodology, individual diagnosis, remedial teaching, evaluation.

**71. METHODS IN
SOCIAL STUDIES FOR
ELEMENTARY
TEACHERS**

2 hours

Techniques and methods of teaching elementary social studies. Curriculum development, individual diagnosis, remedial teaching, evaluation.

**72. METHODS IN
SPEECH FOR
ELEMENTARY
TEACHERS**

2 hours

Techniques and methods of teaching oral expression. Emphasis will be upon the diagnosis of simple defects and disorders.

**73. METHODS IN
READING FOR
ELEMENTARY
TEACHERS**

2 hours

Techniques and methods of teaching elementary school reading. Curriculum development, individual diagnosis, remedial teaching, evaluation.

**74. METHODS IN
LANGUAGE ARTS
FOR ELEMENTARY
TEACHERS**

2 hours

Techniques and methods of teaching the language arts. Curriculum development, individual diagnosis, remedial teaching, evaluation.

75. DIAGNOSTIC
AND REMEDIAL
TECHNIQUES IN THE
TEACHING OF
READING

3 hours

Techniques and methods in remediation of reading difficulties.

77-78. THE
LANGUAGE ARTS
PROGRAM IN
ELEMENTARY
SCHOOLS

8 sem. hrs.

A two semester sequence covering the program in children's literature, reading and the other language arts. The course in professional laboratory experiences (93-94) must be taken simultaneously.

**METHODOLOGY
COURSES FOR
SECONDARY
TEACHERS**

Each student preparing for secondary teaching is required to take the methodology course appropriate for his major area. Completion of this course is a prerequisite for certification and enrollment is limited to teacher education students. Curriculum development, laboratory methodology, individual diagnosis, remedial teaching, evaluation.

80. THE TEACHING
OF LANGUAGE ARTS
IN SECONDARY
SCHOOL

2 hours

For teachers of English and speech.

81. THE TEACHING
OF BIOLOGY IN
SECONDARY SCHOOLS

2 hours

82. THE TEACHING
OF MATHEMATICS
IN SECONDARY
SCHOOLS

2 hours

83. THE TEACHING
OF PHYSICAL
SCIENCES IN
SECONDARY SCHOOLS

2 hours

84. THE TEACHING
OF HEALTH AND
PHYSICAL
EDUCATION IN
SECONDARY SCHOOLS

2 hours

85. THE TEACHING
OF MUSIC IN
SECONDARY SCHOOLS

2 hours

EDUCATION

86. THE TEACHING
OF SOCIAL STUDIES
IN SECONDARY
SCHOOLS*2 hours*

For teachers of history, political science, sociology, and economics.

**PROFESSIONAL
LABORATORY
EXPERIENCES**

The professional laboratory experiences are designed to give the prospective teacher an opportunity to test his technique in actual school settings. Prerequisite in all cases: departmental approval, 2.25 cumulative index.

90. STUDENT
TEACHING:
ELEMENTARY*1 hour*

Approximately 30 clock hours of observation and participation. Repeatable.

91. STUDENT
TEACHING:
SECONDARY*1 hour*

Approximately 30 clock hours of observation and participation. Repeatable.

93-94. PRACTICUM
IN THE TEACHING
OF READING*2 hours*

A two semester course designed to accompany 77-78. Approximately 30 hours each semester will be utilized in laboratory experiences related to the teaching of reading.

95. STUDENT
TEACHING:
ELEMENTARY*8 hours*

A semester's program of observation and teaching in an approved elementary school. Educ. 44 must be taken simultaneously.

96. STUDENT
TEACHING:
SECONDARY*6-8 hours*

A semester's program of observation and participation in an approved secondary school. Educ. 44 must be taken simultaneously.

Pre-Engineering Five-Year Engineering Programs

The following programs enable students to combine a liberal arts course at Saint Joseph's College with education in Engineering at a University or Technical School. Under this plan, the student attends Saint Joseph's for three years* and then transfers to the Engineering School for the completion of advanced courses in a particular field of engineering. Formal agreements on this 3-2 program have been completed with the following: **University of Detroit; Marquette University; New York University; Purdue University; Rose Polytechnic Institute; Saint Louis University (civil and industrial engineering); University of Illinois; University of Notre Dame;** however, students may transfer to any accredited engineering college.

Upon the successful completion of the requirements from Saint Joseph's, the candidate will receive the Bachelor of Arts degree, and, upon the successful completion of the five-year course, the Bachelor of Science in Engineering from the school to which he has transferred. The B.A. degree for Aeronautical, Astronautical, Civil, Electrical, Mechanical, Metallurgical Engineering, and for Meteorology and Oceanography, is given in Mathematics-Physics; for Agriculture, in Biology-Chemistry; for Chemical Engineering, in Chemistry; for Industrial Engineering, in Economics.

Students in the 3-2 program are accepted at these engineering schools only on recommendation of the Dean's Committee on Engineering. They must submit a formal application for transfer to an engineering school in the fall semester of their junior year.

All 3-2 students are required to take the senior Core sequence and the non-western studies element of the junior sequence during the third year of the program prior to enrolling in the professional schools.

The 3-2 Engineering student is subject to all graduation requirements.

*Some programs may require a summer session at the engineering college.

Approved Sequence of Courses for the First Three Years of the

1. Aeronautical and Astronautical Engineering Program,
2. Mechanical Engineering Program,
3. Civil Engineering Program,
4. Electrical Engineering Program,
5. Meteorology and Oceanography.

		Semester Hours		
FRESHMAN YEAR	Core 1, 2	6	6	The Contemporary World, The Modern World
	Mathematics 12	3		Introduction to Modern Algebra
	Mathematics 15	3		Trigonometry and Analytic Geometry
	Mathematics 25		3	Calculus I
	Physics 24		4	Mechanics, Thermometry
	Computer 10, 24	3	3	Digital Computer Programming, Scientific Algorithmic Processing
			<hr/> 15 16	
SOPHOMORE YEAR	Core 3, 4	6	6	Western Heritage: Hebrew and Greco-Roman Heritage, Western Heritage: Middle Ages and Early Modern Heritage
	Chemistry 11-12	4	4	General Chem., Qualitative Analysis
	Mathematics 26	3		Calculus II
	Physics 25, 26	4	4	Thermodynamics, Electricity & Atomic Structure
	Elective		3	(1)
			<hr/> 17 17	
JUNIOR YEAR	Core 5, 6	3	3	The Foundations of Science, Non-western Studies
	Mathematics 35, 45 . .	3	3	Calculus III, Advanced Calculus: Vector Analysis
	Mathematics 36		3	Differential Equations
	Electives	3	3	Electives (2)
	Physics 41-42	3	3	Modern Physics
	Physics 43, 44	3	3	Statics, Dynamics
			<hr/> 15 18	

- (1) Students planning to attend Illinois Institute of Technology or Purdue choose Economics 21-22. Industrial Engineering students planning to attend St. Louis University also choose Economics 21-22.

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(2) Civil Engineering students take Geology 11, Physical Geology; Electrical Engineering students take Physics 31, Electric Circuits. Civil Engineering students planning to attend St. Louis University also take Economics 21, Principles of Economics (I). Industrial Engineering students planning to attend the same institution, see note 1. Students planning to attend New York University in Aeronautics and Astronautics take Mathematics 44.

Approved Sequence of Courses for the First Three years
of A Combined Program in Agriculture

	Semester Hours		
FRESHMAN YEAR	Core 1, 2	6 6	The Contemporary World, The Modern World
	Biology 11-12	4 4	Introduction to Experimental Biology
	Mathematics 12, 15 .	3 3	Introduction to Modern Algebra, Trig. and Analytic Geometry
	Elective	3 3	
		16 16	
SOPHOMORE YEAR	Core 3, 4	6 6	Western Heritage: Hebrew and Greco-Roman Heritage, Western Heritage: Middle Ages and Early Modern Heritage.
	Chemistry 11, 12 ..	4 4	General Chem, Inorganic Chem and Qualitative Analysis.
	Mathematics 25-26 .	3 3	Calculus I, II
	Physics 21-22	4 4	College Physics
		17 17	
JUNIOR YEAR	Core 5, 6	3 3	The Foundations of Science, Non-Western Studies
	Biology 43, 44	4 4	Microbiology
	Chemistry 31-32	4 4	Organic Chemistry
	Economics 21	3	Principles of Economics
	Geology 11	4	Physical Geology
	Electives	3	
		15 17	

Approved Sequence of Courses for the First Three years of

1. Chemical Engineering Program
2. Metallurgical Engineering Program

	Semester		Hours	
FRESHMAN YEAR	Core 1, 2	6	6	The Contemporary World, The Modern World
	Chemistry 11-12	4	4	General Chem; Elementary Analysis
	Mathematics 12	3		Introduction to Modern Algebra
	Mathematics 15	3		Trig & Analytic Geometry
	Mathematics 25		3	Calculus I
	Physics 24		4	Mechanics, Thermometry
		16	17	
SOPHOMORE YEAR	Core 3, 4	6	6	Western Heritage: Hebrew and Greco-Roman Heritage, Western Heritage: Middle Ages and Early Modern Heritage
	Chemistry 33	4		Quantitative Analysis
	Mathematics 26	3		Calculus II
	Physics 25, 26	4	4	Thermodynamics; Electricity and Atomic Structure
	Elective		6	
		17	16	
JUNIOR YEAR	Core 5, 6	3	3	The Foundations of Science, Non-Western Studies
	Chemistry 35		4	Elementary Physical Chem.
	Mathematics 35	3		Calculus III
	Physics 41-42	3	3	Modern Physics
	Physics 43, 44	3	3	Statics, Dynamics
	Elective	3	3	
		15	16	

- (1) Students planning to attend New York University in Chemical Engineering take Chemistry 31-32 and Mathematics 36 instead of Chemistry 35. Those planning to attend there in Metallurgy take Physics 31 instead of Chemistry 35.
- (2) Students are to consult the Chairman of the Department of Chemistry before registering for their Junior Year.

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Approved Sequence of Courses for the First Three Years of the
Industrial Engineering (and Operations Research) Program¹

	Semester		
	Hours		
FRESHMAN YEAR	Core 1, 2	6 6	The Contemporary World, The Modern World
	Business 21-22	3 3	Principles of Marketing, Principles of Management
	Economics 21-22 . . .	3 3	Principles of Economics
	Mathematics 12	3	Introduction to Modern Alg.
	Mathematics 15	3	Trig & Analytic Geometry
	Mathematics 25	3	Calculus I
	Physics 24	4	Mechanics, Thermometry
		18 19	
SOPHOMORE YEAR	Core 3, 4	6 6	Western Heritage: Hebrew and Greco-Roman Heritage, Western Heritage: Middle ages and Early Modern Heritage
	Accounting 21-22 . . .	3 3	Principles of Accounting
	Mathematics 26	3	Calculus II
	Physics, 25, 26	4 4	Thermodynamics; Electricity and Atomic Structure
	Elective	3	
		16 16	
JUNIOR YEAR	Core 5, 6	3 3	The Foundations of Science, Non-Western Studies
	Accounting 42	3	Cost Accounting
	Economics 49	3	Catholic Social Teaching
	Mathematics 35, 36 . .	3 3	Calculus III, Differential Equations
	Physics 41-42	3 3	Modern Physics
	Physics 43, 44	3 3	Statics; Dynamics
		15 15	

(1) Students planning to attend St. Louis University follow the program for civil engineers. Students planning to attend New York University take Physics 31 and Psychology 10.

Department of English

The aims of the Department of English are: 1. To teach the student to read with understanding, and to write and speak with correctness, with exactness, and with some artistry. 2. To develop a capacity for the enjoyment of literature, especially of the major English and American authors. 3. To cultivate what Newman calls "enlargement of mind," which embraces breadth and depth of view, critical judgment, and good taste. 4. To provide adequate preparation for graduate studies, for teaching in secondary schools, and for the study of journalism or law.

DEPARTMENTAL REQUIREMENTS

1. English 21, 22, and 23 are required of all English majors. The student is strongly urged to take these three courses in the freshman year.

2. The requirements for a major sequence in English are English 21, 22, 23, and twenty-four hours in courses numbered English 31 and above.

3. Furthermore, for graduation the student majoring in English must show twelve hours of credit in a foreign language. The Department urges that this language be German, especially if he plans to attend graduate school in English. English-Education majors, as of September, 1969, have the option of receiving the degree Bachelor of Science in English (thus eliminating the language requirement).

SUGGESTED PROGRAM

1. Freshmen majoring in English will take: Core 1-2; English 21, 22, 23; foreign language (e.g. German 1-2).

2. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses.

COURSES IN ENGLISH

10. LABORATORY IN JOURNALISM

3 hours

A study and practice of the fundamentals of gathering and writing news, editing news, newspaper layout and design, and managing the financial affairs of a newspaper. Tailored to the needs of the English-education major who may eventually become a high school newspaper or yearbook advisor, the course is designed to impart a practical and working knowledge of the newspaper itself and in its relation to the mass communication media.

20. RHETORIC AND COMPOSITION (Will not be offered after 1970-71)

3 hours

A study and practice of correct and effective writing.

21. THE LYRIC

3 hours

An introductory study of the lyric as a major mode of expression in poetry, prose, song, and the film. The material studied in the course is primarily modern.

22. THE
NARRATIVE*3 hours*

An introductory study of narrative techniques in the ballad, the tale, the short story, and the novel. The course deals largely with the short story and is modern in its emphasis.

23. THE DRAMA

3 hours

An introductory study of character and conflict. The course deals with the dramatic monologue in poetry; traces the development of major kinds of western drama; and includes emphasis on techniques of modern drama, such as realism, naturalism, expressionism, and the theatre of the absurd.

31. ENGLISH
LANGUAGE AND
LITERATURE
BEFORE THE
RENAISSANCE*3 hours*

A brief study of the Old English and Middle English languages, with emphasis on epic and dramatic literature before 1500 and on writings of Chaucer.

32. MAJOR
WRITERS OF THE
RENAISSANCE*3 hours*

A study of the major writers of the Renaissance in Europe from 1350 to 1650.

33. MAJOR
WRITERS OF
NEO-CLASSICISM*3 hours*

A study of the major writers of the classic revival in European literature from 1650 to 1800.

34. MAJOR
WRITERS OF THE
NINETEENTH
CENTURY*3 hours*

A study of the major romantic writers in European literature and of the major Victorian writers in English literature.

35. MAJOR
WRITERS OF THE
TWENTIETH CENTURY*3 hours*

A study of the major writers of the modern world.

36-37. AMERICAN
LITERATURE*6 hours*

A study of the major writers in America.

38. THE ROMANCE

3 hours

A study of the idealizing impulse in literature and its major forms: utopian literature, quest literature, fantasy, Gothic romance, and folk literature.

39. COMEDY

3 hours

A study of theories and types of comedy. The course is comparative in its emphasis and covers the time-span of western literature, including comic drama, comic fiction, and comedy in the film.

ENGLISH

40. TRAGEDY *3 hours*
A study of theories and types of tragedy. The course is comparative in its emphasis and covers the time-span of western literature, including tragic drama, tragic fiction, and tragedy in the film.
41. THE NOVEL *3 hours*
A study of the novel as a major literary form.
42. SATIRE AND IRONY *3 hours*
A study of theories and types of satire and irony: fabliau, beast fables, picaresque tales, mock-epics, burlesques, and travesties. The course emphasizes satire and irony as major and continuing artistic attitudes on the stage, in fiction, and in the film.
43. SPECIAL STUDIES IN POETRY *3 hours*
A course of study in a significant kind of poetic expression or type.
44. THE CINEMA *3 hours*
A study of the film as a major contemporary art form.
45. LITERARY CRITICISM *3 hours*
A study of the nature, basic values, and techniques of literature as interpreted by various critics. Insight into principles, criteria, and methods is deepened through selected readings.
46. LINGUISTICS AND GRAMMAR *3 hours*
A study of the nature and history of language as particularly exemplified by English. The course offers special study in etymologies, meaning, and the units of English grammar from the morpheme to the sentence. Emphasis is on contemporary approaches and new trends with some attention given to conventional grammar.
47. ADVANCED WRITING *3 hours*
Advanced study of expository and persuasive or creative writing.
48. MAJOR WRITERS *3 hours*
A course of study in the major works of a significant world author.
49. SPECIAL STUDIES IN LITERATURE *3 hours*
A course of study in a major literary topic.
51. HONORS SEMINAR IN ENGLISH *3 hours*
55. INDEPENDENT STUDY *1-3 hours*
- 61-62. ENGLISH HONORS *6 hours*

Department of Geology

In addition to their contribution to general education the courses in geology are designed to prepare the student for entrance into graduate school or specific occupational fields. In this latter respect the courses are intended to prepare the student for a position with the United States Civil Service Commission, to enable him to work with the United States Geological Survey and State Geological Surveys, or to train him for employment in the petroleum or mining industries, or with the National Park Service, either in the field or in the laboratory.

Laboratory fees: Geology 11 and 12, each **\$5.00**. Geology 33, 34, 37, 41, 42, and 46, each **\$7.50**.

DEPARTMENTAL REQUIREMENTS

1. Geology 11-12 are *prerequisites* for all upper-level courses in geology.

2. The minimum requirements for a *major* sequence in geology are twenty-four hours in upper-level courses, including geology 43 and 44. A minimum of a four-hour summer field course is also required. It is further necessary that the student majoring in geology show credit in or give evidence of sufficient knowledge of physics 21-22, chemistry 11-12, and mathematics 11, 15. Mathematics 25-26 are strongly recommended for the major in geology. The requirements for a *minor* sequence are twelve hours in upper-level courses.

SUGGESTED PROGRAM

1. Students majoring in geology will take in their freshman year: Core 1-2; Chemistry 11-12; Geology 11-12; Math 11, 15.

2. Requirements and electives recommended in the sophomore year are the following: Geology 32, 33, 34; Mathematics 25, 26 or Physics 21-22.

3. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

COURSES IN GEOLOGY

11. PHYSICAL GEOLOGY

4 hours

This course introduces the student to the field of geology through a study of the following topics; rock weathering, mass wasting, sculpture of lands by streams, subsurface water, lakes and swamps, glaciation, erosion and deposition by the wind, marine erosion, volcanoes, deformation of the earth's crust, earthquakes, metamorphism, land forms, the common rocks and minerals, topographic maps. Three lectures and one laboratory period each week.

GEOLOGY

12. HISTORICAL
GEOLOGY*4 hours*

A further introduction to the field of geology through a study of the following topics: earth history recorded in the rocks, the constant change of living things, the scale of time, the Precambrian, Paleozoic, Mesozoic, and Cenozoic world, fossils, geologic maps. Three lectures and one laboratory period each week.

Prerequisite: Geology 11.

20. WORLD
GEOGRAPHY*3 hours*

This course presents to the student the life and occupations of man as related to geographic conditions. The social, political, and industrial development of typical regions is studied in relation to such factors as land utilization, natural highways and boundaries, and distribution of natural resources.

24. ANTHROPO-
LOGICAL
GEOGRAPHY

Anthropological Geography. A conceptual course tracing the evolution of man and races, the character and arrangement over the earth of the physical-biotic systems that constitute the natural surroundings of man and concepts evaluating the significance to man of the natural surroundings.

25. ASTRONOMY

Astronomy. A non-mathematical introduction to astronomy including the history of astronomy, determination of location using celestial bodies, and main features of the known universe. Also an emphasis on tools used in astronomy and speculation concern the origin of planets, stars, and galaxies.

27. METEOROLOGY

Meteorology. An introduction to meteorology with emphasis on the vertical structure of the atmosphere, cloud formation, general circulation, air mass exchange, and various atmospheric and weather processes.

32. GRAPHIC
PROCEDURES IN
GEOLOGY*2 hours*

This course covers the elements of engineering drawing as applied to geologic problems. The first half of the semester is devoted to instruction in sketching, lettering, use of instruments, the construction of charts, maps, and geologic illustrations. The second half of the course covers the principles of orthographic projection and plane descriptive geometry as used in the solution of practical geologic problems. Two two-hour periods per week.

Prerequisite: Geology 12 and consent of Instructor.

33. MINERALOGY

4 hours

A course dealing with physical, chemical, descriptive, economic, and determinative mineralogy, and the fundamentals of crystallography. Two lectures and two laboratory periods each week.

Prerequisite: Chemistry 11, 12.

**34. OPTICAL
MINERALOGY***3 hours*

Theory and practice of determining the optical properties of minerals with the aid of the petrographic microscope. One lecture and two laboratory periods per week.

Prerequisites: Geology 12, 33.

**35.
GEOMORPHOLOGY***3 hours*

The study of the land forms produced by various geologic processes on the surface of the earth; the use of land forms in the interpretation of geologic history. Two lectures and one laboratory period each week.

Prerequisite: Geology 12.

**36. GEOLOGIC
FIELD METHODS***2 hours*

This course treats the use of the plane table and alidade, Brunton compass, altimeter, and other instruments used in geologic field problems and mapping. Two two-hour laboratories each week.

Prerequisites: Geology 11 and 12.

37. PHOTOGEOLOGY*2 hours*

The course embraces the evaluation and depiction of geologic phenomena from aerial photographs. The primary emphasis is placed on the delineation of structural, petrologic, geomorphic and cultural features. Two laboratory periods per week.

Prerequisite: Geology 12, 43.

39. PETROLOGY*3 hours*

A study of the formation, occurrence, and characteristics of the common rocks together with their field identification. Two lectures and one laboratory period each week.

Prerequisite: Geology 33 and 34.

**41. INVERTEBRATE
PALEONTOLOGY***4 hours*

Morphology, classification, geological significance of fossils; special study of index fossils of North America. Three lectures and one laboratory period each week.

Prerequisite: Geology 12.

**43. STRUCTURAL
GEOLOGY***4 hours*

A study of the framework of the earth's crust; the deformation of the earth, its causes and effects. Three lectures and one laboratory period each week.

Prerequisites: Geology 12, and Mathematics 11, 15.

44. STRATIGRAPHY

4 hours

Methods of description, classification, interpretation, and correlation of rock units. Laboratory exercises are designed to aid in understanding stratigraphic problems, paleoenvironments, and faunal and facies changes. Three lectures and one two-hour laboratory period each week.

Prerequisites: Geology 12, 34, 39, and 41.

46. ECONOMIC
GEOLOGY*3 hours*

A study of the general principles for the formation of mineral deposits, together with an application of these principles to the study of specific economic mineral deposits. Two lectures and one laboratory period.

Prerequisites: Geology 12 and 39.

47-48. SEMINAR
IN GEOLOGY*2 hours*

Discussion of special problems.

Prerequisite: Junior-Senior Standing.

51. HONORS
SEMINAR IN
GEOLOGY*3 hours*55. INDEPENDENT
STUDY*1-4 hours*

Department of History

The Department of History offers to enlarge the student's intellectual horizon by an ordered, meaningful, and up-to-date inquiry into man's past. This includes not only courses in United States and European history, but also introductions into several areas of non-western history and into the basic skills of historical research itself. Concentration in history prepares the student for graduate studies, entry into law school, and teaching in secondary schools, as well as providing a broad, cultural basis for a later career in various fields of business or the arts.

DEPARTMENTAL REQUIREMENTS

1. A major sequence in history, in addition to History 23-24, requires 24 hours in upper-level courses, including History 50 (Pro-Seminar), and at least one (1) course selected from each of the following four fields: Medieval (31, 42); Modern European (45, 47, 48); American (33, 34, 36, 37, 38); and Non-Western (39, 40, 41, 43, 44, 46).

2. Students expecting to pursue graduate studies in history are advised to take at least twelve hours or the equivalent in a foreign language, preferably French and German.

SUGGESTED PROGRAM

1. Freshman students majoring in history will take: Core 1-2; History 23-24; and Political Science 21. Foreign language is recommended as a freshman elective.

2. Electives recommended for the sophomore year are the following: Economics 21-22, further courses in foreign languages.

3. Political Science 44, International Relations, may be counted towards the twenty-four hours required for a major in history.

TEACHER EDUCATION REQUIREMENTS

Core Graduates: Core, professional education block; 6 hours American History; 3 hours political science; 3 hours sociology; 6 hours economics; 9 hours geography and major in history.

Non-Core Graduates: 6 hours literature; 3 hours composition; 2 hours speech; professional education block; art and music appreciation; 12 hours philosophy; 12 hours theology; 3 geology courses and science or math electives other than geology to total 14; 6 hours sociology; 6 hours economics; 6 hours political science and major in history

Minor in World History: 15 hours world history and 9 hours in social sciences which must cover at least two of the following areas: sociology, economics, political science, American history, geography.

Minor in American History: 15 hours American History; and 9 hours in social sciences which must cover at least two of the following areas: world history, economics, political science, sociology and geography.

HISTORY

**COURSES IN
HISTORY**

20. WORLD
GEOGRAPHY
(Geology 20)

3 hours

23-24. UNITED
STATES HISTORY, I-II

6 hours

A study of American civilization from its European origins until 1865 in the first semester; its development since 1865 until the present is considered in the second semester.

29. INTELLECTUAL
HISTORY OF THE
TWENTIETH
CENTURY
(Philosophy 44)

3 hours

A critical attempt to determine the themes and principal figures of philosophy in the last hundred years.

30. CHRISTIAN
ORIGINS

3 hours

The origins of Christianity and the emergence of the first Christian communities and churches; the organization of the first Christian theological schools, ecumenical councils, and Christian cultures to the beginnings of the Middle Ages.

31. MEDIEVAL
EUROPE

3 hours

The development of Europe from the disintegration of the Roman Empire in the West to the Renaissance. The Church, feudalism, the manorial system, and town life are among the major topics treated. Stress is placed upon the social and economic life in the period.

33. THE AMERICAN
FRONTIER

3 hours

The history of the American frontier with emphasis upon westward expansion, continuous settlement, and the import of the frontier experience on American cultural and political ideas and institutions.

34. AMERICAN
NATIONALISM AND
SECTIONALISM

3 hours

Within the Federalist, Jeffersonian, and Jacksonian administrations, there is stressed the new nationalism, the rise of the common man, and the ascendancy of sectionalism.

36. TWENTIETH
CENTURY
AMERICA

3 hours

Emphasis is given to the political and social history from Theodore Roosevelt to Lyndon Johnson.

37. AMERICAN
FOREIGN
RELATIONS

3 hours

A survey of United States relations with Europe, Latin America, Russia, and the Orient, tracing the origins and development of our foreign

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policy and the history of the men who framed it. (May be taken for Political Science credit).

38. AMERICAN
ECONOMIC HISTORY
(Economics 42)

3 hours

Included are the physical environment of American economic development, colonization, continental expansion and industrialism, the economy during war time, prosperity, and depression.

39. HISTORY OF
LATIN AMERICA:
COLONIAL

3 hours

A study of the main trends in the development of Latin American civilization from the Age of Discovery to the Wars of Liberation.

40. HISTORY OF
LATIN AMERICA:
NATIONAL

3 hours

A study of the major nations of Latin America from the Wars of Liberation to the present.

41.1-41.2 HISTORY
OF THE FAR EAST I-II

6 hours

The Western impact on the Far East and the Eastern response the 19th and 20th centuries. International relations are appropriately emphasized, but full attention is given to the more fundamental factors of institutions and ideas. The first semester stresses China, and the second, Japan.

42. ENGLISH
MEDIEVAL
CONSTITUTIONAL
HISTORY

3 hours

The constitutional and legal institutions and development of the English people from Anglo-Saxon times to the early modern period. (May be taken for Political Science credit.)

43-44. HISTORY
OF RUSSIA I-II

6 hours

The origins and growth of the Russian people and institutions from the eighth century to the present.

45. RENAISSANCE
AND REFORMATION

3 hours

Emerging modern Europe between about 1450 and 1648: the rise of national monarchies, the commercial revolution, the renaissance, and the religious reformations.

46. THE BYZANTINE
EMPIRE

3 hours

The origin and history of the Eastern Roman Empire from Constantine until the emergence of the eastern European and Russian nations, emphasizing the reigns of the greater emperors, Church-State relationships, and Byzantine art and culture.

47. REVOLUTIONARY
EUROPE, 1789-1871

3 hours

The history of Europe from the French Revolution through the unifications of Germany and Italy.

HISTORY

48. EUROPE
SINCE 1914*3 hours*

A study of warfare, totalitarianism, dictatorships, and "collective security" in our own times.

50. PRO-SEMINAR
IN HISTORY*3 hours*

An introduction, by means of directed reading and individual projects, to the methods of historical research, historiography, and the philosophy of history.

55. INDEPENDENT
STUDY*1-3 hours*61-62. HISTORY
HONORS*6 hours*

Department of Languages

The courses offered by the Department of Languages are designed to fulfill these general aims: (1) to provide the student with a basic knowledge of modern and classical language; (2) to offer through the study of language an insight into and an appreciation of the literature and culture of other peoples. More specifically, the department's purpose is to provide the student with the basic skills in a language—namely, the ability to read, write and speak modern languages and to read and write classical languages—in preparation for entrance into graduate school, theological seminaries and the teaching profession.

DEPARTMENTAL REQUIREMENTS

1. The requirements for a major sequence in **French, German or Latin** are 24 upper-level hours. There are no prerequisites, but students will not be admitted to upper-level courses unless they show adequate preparation and proficiency.

Students expecting to pursue graduate studies in Latin are advised to take at least 12 hours in upper-level courses or the equivalent in a modern foreign language, preferably French and German.

2. The requirements for a *minor* sequence in a specific language are twelve hours in upper-level courses, unless otherwise noted.

TEACHER EDUCATION REQUIREMENTS

For those wishing to teach in secondary schools, the following courses are required: Core, professional education block, 8 hours mathematics or science and the major in a language. For the teaching minor: 24 semester hours in any one language.

COURSES IN FRENCH

1-2. ELEMENTARY FRENCH

6 hours

This introductory course insists on pronunciation, vocabulary building, free conversation, and structural analysis. Development in speaking, writing, and reading is encouraged by emphasis on aural comprehension and free conversation. Dialogues between students are carried on in class.

21-22. INTERMEDIATE FRENCH

6 hours

The thorough presentation of grammar is aimed at increasing the students' ability to understand and speak French. Modern prose readings from select literary works are done, with discussion in French. Application of grammatical usage is made in classroom dialogues. Training in oral and written expression is intensive. An introduction to literary translation, stylistics and versification is given.

31-32. INTRODUCTION TO FRENCH LITERATURE

6 hours

Readings are selected from medieval through contemporary literary works. There is systematic and intensive oral practice in French. Topics

LANGUAGES

are assigned for individual presentation and group discussion. The student is given the perspective necessary for the period courses which follow. Class is conducted in French.

3 hours

Representative readings are done in modern translation and in Old French of the *Chanson de geste*, *Roman Courtois*, religious and secular theater, Chroniclers; lyric poetry is studied, including the *genres determines* and *poesie a forme fixe*; Roland Tristan, Rutfeuf, Farces, Villon, etc. Class is conducted in French.

3 hours

Humanism, Reform, Petrarquism and Baroque are studied as reflected in the works of Rabelais, Montaigne, Calvin, and the Pleiade poets. An introduction to the interpretation of French texts is given. Class is conducted in French.

3 hours

Texts selected from the literature of the Golden Age are read and analyzed, stressing the theater of Corneile, Racine, and Moliere. The work of Madame Lafayette is studied. Attention is also given to the philosophers and moralists of the classical period and to the birth of science in France under the influence of the Arab immigration from Spain. Class is conducted in French.

3 hours

A consideration of the major literary and philosophical writings of the Age of Enlightenment. Emphasis is given to Rousseau, Voltaire, Montesquieu and Diderot. Class is conducted in French.

3 hours

The Romantic School is studied as illustrated by the major poets and playwrights, as well as Chateaubriand and Stendhal; the prose writings of Victor Hugo and others of the first term are studied. Realism and Naturalism are stressed in the novels of Balzac and Flaubert and the poetry of the Parnassians and the Symbolist Schools. Class is conducted in French.

3 hours

Works of the first generation writers are studied: Proust, Gide, Claudel, Valery, the surrealists and others. The works of Mauriac, Mallreaux, Camus, Sartre, black writers, and French Canadian literature are all treated. Class is conducted in French.

3 hours

33. MEDIEVAL FRENCH LITERATURE

34. RENAISSANCE FRENCH LITERATURE

35. SEVENTEENTH CENTURY LITERATURE

36. EIGHTEENTH CENTURY LITERATURE

41. NINETEENTH CENTURY LITERATURE

42. TWENTIETH CENTURY LITERATURE

51. HONORS SEMINAR

55. INDEPENDENT
STUDY*1-3 hours***COURSES IN
GERMAN**1-2. INTRODUCTORY
GERMAN*6 hours*

Exercises in pronunciation, essentials of grammar, and functional vocabulary. Intensive reading from graded texts.

21-22.
INTERMEDIATE
GERMAN*6 hours*

Review of grammar. Practice in reading and writing. Required selections from modern works in the narrative, dramatic, and scientific styles.

26. SCIENTIFIC
GERMAN*3 hours*

An intensive reading course for students majoring in science. This course may be substituted for German 22.

31. ADVANCED
COMPOSITION*3 hours*

Correct, idiomatic and effective writing in German. Translations are assigned, as well as topics for individual creative writing.

32. ADVANCED
CONVERSATION*3 hours*

Systematic and intensive German oral practice. Topics are assigned for individual presentation and group discussion. The class is conducted in German and audio-visual aids are used to perfect pronunciation.

35-36. GERMAN
LITERATURE TO
THE 19TH CENTURY*6 hours*

A survey of German Literature from its beginnings to the nineteenth century. Readings from the most important authors. Oral and written reports are required.

41-42. GERMAN
LITERATURE OF
THE 19TH AND
20TH CENTURY*6 hours*

A survey of German Literature of the nineteenth and twentieth centuries. Readings from representative authors. Oral and written reports are required.

**COURSES IN
GREEK**1-2. ELEMENTS OF
NEW TESTAMENT
GREEK*6 hours*

A study of the fundamentals of inflection and rules of syntax as found in the Greek of the New Testament.

21-22. THE GREEK
NEW TESTAMENT*6 hours*

The course aims to impart a reading knowledge of the Greek New Testament through the reading of some selections from the Gospels and the *Acts of the Apostles*.

LANGUAGES

34. GREEK DRAMA *3 hours*
A study of the origins and development of Greek drama.
35. CLASSICAL MYTHOLOGY *3 hours*
A study of classical Greek and Roman mythology. No knowledge of the ancient languages required.

COURSES IN
LATIN

- 1-2. INTRODUCTORY LATIN *6 hours*
Latin I is a study of fundamentals aimed at an early acquisition of a reading knowledge of Latin. Latin II is a continuation of Latin I (prerequisite: Latin I or equivalent).
- 11-12. INTERMEDIATE LATIN *6 hours*
Latin 11 aims to develop the student's ability to recognize grammatical usage through composition and selected readings of moderate difficulty. Latin 12 is a continuation of Latin 11.
21. CICERO THE ORATOR *3 hours*
Reading and appreciation of selections from Cicero's orations.
22. ROMAN EPIC *3 hours*
History of Epic poetry; selections from Virgil's *Aeneid*.
31. CHRISTIAN LATIN *3 hours*
Introduction to the grammar and syntax of ecclesiastical Latin; selections from all periods.
32. PATRISTIC LATIN *3 hours*
Readings from the Latin Fathers.
33. ROMAN HISTORIANS *3 hours*
Selections from Caesar, Livy and Tacitus.
34. ROMAN COMEDY *3 hours*
Plautus and Terence.
35. LATIN COMPOSITION *2 hours*
Advanced exercises in continuous prose composition.
36. HORACE *3 hours*
Selected Odes and Epodes.
37. ROMAN SATIRE *3 hours*
History of satire: selections from Horace and Juvenal.

38. CICERO THE
PHILOSOPHER*3 hours*Selections from *De Senectute* and *De Amicitia*.39. MEDIEVAL
LATIN VERSE*3 hours*

Selections from Latin verse of the Medieval period.

41. READINGS IN
A SELECTED LATIN
AUTHOR*3 hours*

This is designed to give the student an opportunity to study in depth an author of his choosing.

51. HONORS
SEMINAR55. INDEPENDENT
STUDY**COURSES IN
SPANISH**1-2. INTRODUCTORY
SPANISH*6 hours*

Drill in the basic grammatical rules. Simultaneous development of the four ends of language study: reading, aural comprehension, writing and speaking.

21-22.
INTERMEDIATE
SPANISH*6 hours*

Review of basic grammatical forms, plus advanced grammar and idiomatic usage. Reading of selected texts and written reports are required.

31. ADVANCED
COMPOSITION*3 hours*

Correct, idiomatic and effective writing in Spanish. Translations are assigned as well as topics for individual creative writing.

32. ADVANCED
CONVERSATION*3 hours*

Systematic and intensive Spanish oral practice. Topics are assigned for individual presentation and group discussion. The class is conducted in Spanish, and audio-visual aids are used to perfect pronunciation and inflection.

35-36. SPANISH
LITERATURE*6 hours*

Survey of Spanish literature from its beginnings to modern times. Selected readings from the most important authors. Written and oral reports are required.

41-42. SPANISH-
AMERICAN
LITERATURE*6 hours*

A survey of Spanish American literature with emphasis on the nineteenth and twentieth centuries. Selected readings from representative authors from various countries.

Department of Mathematics

The mathematics courses offered below are designed to help the student attain: 1) an understanding and appreciation of the fundamental methods of deductive reasoning; 2) adequate preparation for work in graduate and professional schools; 3) facility in the use of mathematics as a tool; 4) thorough familiarity with modern mathematical concepts.

DEPARTMENTAL REQUIREMENTS

1. The requirements for a *major* sequence are twenty-four hours in upper level courses, including the following: Mathematics 32, 33, 35, 36, 46. The requirements for a *minor* sequence are twelve hours in upper level courses.

2. A group-major involving mathematics is comprised of at least thirty-six hours in upper-level courses, of which a minimum of fifteen hours are in mathematics, including the following courses: Mathematics 35, 36.

SUGGESTED PROGRAM

1. In the freshman year, students majoring in math will take: Core 1-2; Math 12, 15; Computer 10.

2. On the upper level, students should consult faculty advisors in the mathematics department prior to scheduling courses.

3. Mathematics 11 (College Algebra) and Mathematics 12 (Introduction to Modern Algebra) is the two-course sequence recommended to satisfy the general education requirements. By way of exception, any two mathematics courses with numbering greater than 10 will satisfy this requirement.

4. The standard sequence of courses for science students and, in particular, for engineering students should be as follows: Mathematics 15 (Trigonometry and Analytic Geometry), Mathematics 25, 26, and 35 (the Calculus sequence).

COURSES IN MATHEMATICS

1. FUNDAMENTAL THEORY OF ARITHMETIC FOR ELEMENTARY TEACHERS

3 hours

This course is designed specifically for elementary teachers and stresses the number system structure from natural numbers to and including rational numbers. Major areas of emphasis are set terminology, numeration systems, basic number of properties, and review of fundamental arithmetic processes.

2. ALGEBRA FOR ELEMENTARY TEACHERS

3 hours

This course completes many of the topics begun in Math 1. Basic emphasis is on the number system through complex numbers.

3. GEOMETRY FOR
ELEMENTARY
TEACHERS

3 hours

Emphasis is on intuitive plane Euclidean geometry and the development of a formal geometry and the development of a formal geometry from the basic elements of points, lines and planes. Some consideration of mathematical proof is included.

11. COLLEGE
ALGEBRA

3 hours

A survey of traditional algebra, including functions, equations, identities, exponents, radicals, logarithms, inequalities, mathematical induction, progressions, and introduction to theory of equations.

12. INTRODUCTION
TO MODERN
ALGEBRA

3 hours

The basic properties of algebraic structures; extensive use of these properties applied to traditional algebra; detailed examples of algebraic structures; introduction to integers, rationals and reals; introduction to algebra of sets.

15. TRIGONOMETRY
AND ANALYTIC
GEOMETRY

3 hours

Trigonometric functions, solutions of various triangles, formulas and identities; radian measure; trigonometric equations and curves; inverse trigonometric functions; complex numbers. Linear equations; the circle, parabola, ellipse, and hyperbola; parametric equations; polar coordinates.

25. CALCULUS I

3 hours

An introduction to the Calculus through the following concepts: functions, limits of functions, continuity, derivatives, differentiation of algebraic functions, applications of derivatives, antiderivatives, and the definite integral.

26. CALCULUS II

3 hours

The differentiation and integration of the transcendental functions, standard methods of integration, study of polar co-ordinates, introduction to vectors in the plane, and improper integrals.

Prerequisite: Mathematics 25.

32. MODERN
ALGEBRA I

3 hours

Sets, relations and mappings; introduction to Boolean Algebra; axiomatic development of the complex number system; polynomial domains.

33. ADVANCED
EUCLIDEAN
GEOMETRY

3 hours

This course introduces the student to an extensive body of synthetic geometry. It includes notable points of the triangle, concurrency and collinearity, harmonic ranges and pencils, orthogonal circles, poles and polars, homothecy, coaxal circles, inversion and involution. It requires only the known Euclidean concepts.

MATHEMATICS

35. CALCULUS III

3 hours

An introduction to vectors in three-dimensional space, partial differentiation, multiple integrals, infinite sequences and series and an introduction to differential equations.

Prerequisite: Mathematics 26.

36. DIFFERENTIAL EQUATIONS

3 hours

Differential equations from a practical view point, combining the formal exercises of integrating the various standard types of differential equations with the setting-up of equations from problems of natural science.

Prerequisite: Mathematics 35.

37. THEORY OF NUMBERS

3 hours

The elementary properties of integers, divisibility of integers and Euclid's Algorithm; solutions to Diophantine Equations; prime numbers, aliquot parts, congruences and quadratic residues.

38. PROBABILITY AND STATISTICS

3 hours

From this course the student gains an understanding of the kinds of regularity that occur amid random fluctuations; experience in associating probabilistic mathematical models to interpret physical phenomena and to predict, with appropriate measures of uncertainty, the outcomes of related experience.

Prerequisite: Mathematics 25, 26.

39. NUMERICAL ANALYSIS

3 hours

Finite differences, numerical differentiation, integration, solution of equations and differential equations. Special reference to the use of high computers.

Prerequisite: Mathematics 35.

42. MODERN ALGEBRA II

3 hours

Elementary group theory; subgroups; homomorphisms and automorphisms; Cayley's Theorem and permutation groups; Sylow's Theorem; elementary ring theory; ideals and quotient rings; elementary field theory and extension fields.

Prerequisite: Mathematics 32.

43. INTRODUCTION TO MODERN GEOMETRY

3 hours

This course has two objectives: to present geometry as an interrelated study of various specific geometrical systems, which are characterized by properly chosen postulate systems; and, in this framework, to present a treatment of some Euclidean theorems which meet current standards of rigor. It will touch on logical systems, selection of systems of axioms, non-metric projective geometry, non-Euclidean and metric projective geometry. Incidence and order are emphasized.

Prerequisite: Mathematics 33.

44. LINEAR
ALGEBRA AND
MATRICES

3 hours

Vector spaces over a field; linear transformations and linear algebras; matrices and their operations; linear equations and determinants; various kinds of matrices; equivalence of matrices.

Prerequisite: Mathematics 32.

45. ADVANCED
CALCULUS: VECTOR
ANALYSIS

3 hours

An introduction to vector analysis; line integrals and their evaluation; Green's Theorem in the plane; surface integrals; Stoke's Theorem; divergence theorem; applications in physics. Selected topics from Fourier Series, LaPlace Transforms and gamma-beta functions.

Prerequisite: Mathematics 35.

46. ADVANCED
CALCULUS: REAL
ANALYSIS

3 hours

A modern, topological approach to real analysis, dealing with the following concepts; bounded sets, convergence of sequences and sub-sequences of real numbers, continuous functions on metric spaces; open and closed sets; connectedness, completeness and compactness; Riemann Integral; derivatives; law of the mean; fundamental theorems of calculus; improper integrals.

Prerequisite: Mathematics 35.

51. HONORS
SEMINAR IN
MATHEMATICS

3 hours

55. INDEPENDENT
STUDY

1-3 hours

Department of Music

The aim of the department of music is to further the intellectual and aesthetic development of the student through the medium of music theory and practice, secular and religious. To achieve this aim, the department offers the Bachelor of Arts and Bachelor of Science degrees. Courses leading to the Master of Music degree are offered in affiliation with DePaul University. The student majoring in music may concentrate in applied music, theory and composition, church music, or music education. Students concentrating in church music may emphasize organ, voice, choral conducting, or composition. Students concentrating in music education may emphasize a keyboard instrument, a band instrument, or voice.

DEPARTMENTAL REQUIREMENTS

1. For all students majoring in music, Music 11, 12, 21, and 22 are required.
2. For students concentrating in applied music: 24 upper-level hours of music, including 8 hours of applied music and Music 50. Those concentrating in piano or organ are required to take Music 45.
3. For students concentrating in theory and composition: 24 upper-level hours of music, including Music 42.
4. For students concentrating in church music: 24 upper-level hours of music and liturgy (a maximum of 6 hours in liturgy), including Music 32, 46, and 47.
5. For students concentrating in music education: 24 upper-level hours of music, including 8 hours of the major instrument, 8 hours of instrumental techniques, and Music 50.
6. For all students majoring in music: participation in a major ensemble each semester is required. For those concentrating in church music, participation in a choral ensemble is required.

COURSES IN MUSIC THEORY AND HISTORY

11. MUSICAL SCIENCE I.

3 hours

An integrated course in music theory, including elementary keyboard harmony, sight-singing, and analysis. Notation. Scales, intervals, melody-writing, melodic analysis, phrase and period structure. Rhythm and meter. The two-voice framework. Two-voice and three-voice combinations. Introduction to non-chord tones. Primary triads. Basic harmonic progressions. Sixth chords. Harmonization of a given part. Simple improvisation and transposition. Writing, identification, and playing of cadences in major and minor keys.

12. MUSICAL
SCIENCE II.*3 hours*

A continuation of Music 11. Non-chord tones. The dominant seventh chord and its inversions. Six-four chords. Harmonic rhythm. Binary, ternary, and through-composed forms. Secondary triads. Sequence. Secondary dominants. Modulation.

13. PRINCIPLES OF
CONDUCTING:
THEORY
AND PRACTICE.*2 hours*

Fundamentals of score-reading and baton technique.

21 MUSICAL
SCIENCE III.*3 hours*

A continuation of Music 12. Diatonic seventh chords and their inversions. Diminished triads and diminished seventh chords and their resolutions. Irregular resolutions. The Baroque prelude, chorale prelude, and variation forms. Fugue. Neapolitan and augmented sixth chords.

22. MUSICAL
SCIENCE IV.*3 hours*

A continuation of Music 21. Sonata-allegro form. Ninth, eleventh, and thirteenth chords. Chords of the raised supertonic and raised submediant. Advanced chromaticism. Impressionism. Twentieth-century melody, harmony, and tonality schemes.

25. INTRODUCTION
TO MUSIC
LITERATURE*2 hours each*

- a. The Symphony
- b. Jazz

A survey course in music literature, for the non-music major.

28. KEYBOARD
METHODS FOR
ELEMENTARY
TEACHERS*2 hours*

Methods of presenting music to children in the elementary school. Curriculum development, individual diagnosis, remedial teaching, and evaluation.

29. CHORAL
METHODS FOR
ELEMENTARY
TEACHERS*2 hours*

Methods of presenting music to children in the elementary school. Curriculum development, individual diagnosis, remedial teaching, and evaluation.

33. MUSIC HISTORY
AND LITERATURE I.*3 hours*

A survey of music history and literature from Antiquity to the Early Baroque.

34. MUSIC HISTORY
AND LITERATURE II.*3 hours*

A survey of music history and literature from the Mature Baroque to Late Romantic.

MUSIC

37. EIGHTEENTH-CENTURY COUNTERPOINT

*3 hours**(2 hours, summer)*

A course in eighteenth-century counterpoint to three parts. Analysis and composition.

38. TECHNIQUES

2 hours

- a. Brass
- b. Woodwinds
- c. Strings
- d. Percussion

41. ARRANGING

2 hours

- a. Orchestral
- b. Choral

43. MUSIC HISTORY AND LITERATURE III.

3 hours

A survey of music history and literature from Late Romantic into twentieth century.

44. MUSIC HISTORY AND LITERATURE IV.

3 hours

A survey of contemporary music history and literature.

45. ADVANCED KEYBOARD HARMONY AND EXTEMPORIZATION

3 hours

46. ADVANCED CONDUCTING: CHORAL AND INSTRUMENTAL

3 hours

Further development of score-reading and baton technique Interpretation. Tone, intonation, balance, diction, phrasing. The psychology of conducting. Actual conducting experience under critical supervision. Pre-requisite: Music 13.

47. MARCHING BAND TECHNIQUES

3 hours

Study of, and practice in, creating band shows, to include arranging the music, charting formations, drill, and organization and administration of a marching band, with special reference to the styles of certain large university bands and their adaptability to band programs of varying sizes and conditions.

48. FORM AND ANALYSIS

3 hours

An extended and concentrated study of larger musical forms, including selected works from the *WELL-TEMPERED CLAVIER* by Bach, the keyboard Sonatas by Beethoven, and the orchestral, chamber music, and keyboard literature from the Classical Period through the Contemporary Period. Pre-requisite: Music 22.

51. HONORS
SEMINAR IN MUSIC*3 hours*55. INDEPENDENT
STUDY IN MUSIC*1-3 hours***COURSES IN MUSIC
BY PRIVATE
INSTRUCTION**

10; 30. Applied Music. Minor performance area. Variable credit.
20; 40. Applied Music. Major performance area. Variable credit.

42. COMPOSITION

3 hours (2 hours, summer)

Pre-requisite: Music 21. Available by arrangement with the instructor.
May be taken more than once.

50. SENIOR RECITAL
00. ENSEMBLE*1 hour*

Instrumental or Vocal-choral. No credit.

**COURSES IN
LITURGICAL MUSIC
THEORY AND IN
LITURGY**31. LITURGICAL
LEGISLATION AND
APPLICATION*2 hours*

Emphasis on most recent legislation. Includes bibliography, repertoire,
and elementary conducting.

32. GREGORIAN
CHANT*3 hours*

The chant in the Roman Rite: history, nature, development, rhythm,
interpretation, psalmody, modality, composition and form, paleography.

36. SIXTEENTH-
CENTURY
COUNTERPOINT*3 hours*

A course in sixteenth-century counterpoint to three parts.

47. THEOLOGY OF
THE LITURGY*3 hours*

History of salvation; liturgical spirituality; elements of the liturgy.

49. THEORY
INTEGRATION*2 hours*

Review and integration of theory, figured bass, harmonization of mel-
odies, transposition, improvisation, etc.

Prerequisite: Music 22.

**COURSES IN
LITURGICAL
APPLIED MUSIC**

Cf. Courses in applied music.

Department of Philosophy

The Department of Philosophy believes that ideas are among the important instruments by which men achieve freedom and self-determination. Even more, the department believes that without serious and sustained reflection upon the formation and application of ideas, a liberal education fails in one of its aims: to free man's critical faculties. Such freedom is an essential step along the path to wisdom, the capacity to judge the significance of human experience. Acknowledging the existence and importance of a higher wisdom, a truth that saves, the department also acknowledges its special responsibility in a Christian college to distinguish between philosophical and theological wisdom and to bring the best of human thought to bear upon man's ultimate concern.

Courses in the Department of Philosophy are designed to acquaint the student with both the history of thought and the set of problems which the search for wisdom now poses for humankind. The Department actively seeks students who wonder, who are interested in consequences. Some courses in Philosophy grow directly out of the Core curriculum and they are recommended to students interested in following up significant ideas implicated in their general education. Other courses are designed to follow the outgrowth of Core for students who want to pursue the issues in still greater depth. With one exception no course in Philosophy is a pre-requisite for another course.

A major in Philosophy is one of the traditional preparations for entrance into a school of theology or law. A major in Philosophy is also appropriate undergraduate preparation for graduate work in the behavioral sciences, though the student should consult the catalogue of the various graduate schools he is interested in attending.

DEPARTMENTAL REQUIREMENTS

1. A student majoring in Philosophy must show credit in six lower-level hours in Philosophy. It is strongly recommended that these hours be taken in courses appropriate to his Core curriculum.

2. In addition, it is strongly recommended that a student majoring in Philosophy who intends to do graduate work in Philosophy show twelve hours of credit in a foreign language. A "pass" grade is sufficient to fulfill this requirement. (For difference in degree granted, see "foreign languages" under academic policies.)

3. A major sequence in Philosophy consists of twenty-four hours in upper-level courses, including six hours in history of philosophy and six hours in metaphysics. A minor sequence in Philosophy consists of twelve hours in any upper-level courses.

SUGGESTED PROGRAM

1. On the lower level, students majoring in Philosophy will take Core 1 through 4, and at least two lower level Philosophy electives.

Electives recommended are lower-level courses in a foreign language. Other helpful electives are courses in the areas of social studies, behavioral sciences, or communication arts.

2. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

COURSES IN PHILOSOPHY

*11. THE AMERICAN EXPERIENCE

3 hours

A study of how American thinkers interpreted and shaped our culture. Special emphasis is placed on the American dream and the means visualized for its fulfillment. This course develops ideas implicated in Core 1.

12. INTRODUCTORY LOGIC

3 hours

This course investigates the forms of valid reasoning in the classical as well as in the modern symbolic systems of logic. The aim of the course is both theoretical and practical. It aims at developing the student's ability to think clearly and rigorously and to understand the rules for such thinking. Philosophy 41 is recommended as an advanced study of these same topics.

*21. THE GREEK UNIVERSE

3 hours

A study of the formation of a world-view underlying much of Western thought. Special emphasis is placed on the systematization of Greek thought by Plato, Aristotle, and Plotinus. This course develops ideas implicated in Core 3 and, because of the element of continuity between Greek and Christian thought, leads directly to Philosophy 22.

*22 THE MEDIEVAL UNIVERSE

3 hours

A study of the contributions of Christianity to Philosophy, especially the significant difference in outlook on God, man, and the world which occurred when the notion of creation met with Greek thought. The creation and destruction of an integrated Christian wisdom is traced from Augustine to Ockham. This course develops ideas implicated in Core 4. Historically, it leads directly to Philosophy 31; it also provides background for Philosophy 45.

31. THE AGE OF THE ENLIGHTENMENT

3 hours

A study of seventeenth and eighteenth-century thinkers from Descartes to Kant who thought through the change of world-view brought about by the rise of the physical sciences. Special emphasis is placed upon prob-

*An asterisk before a course number indicates a direct relation with the Core program.

lems of scientific methodology and the transformation they wrought in the very notion of philosophy. Historically, this course leads directly to Philosophy 32; it also provides valuable background for Philosophy 33, 34, and 41.

32. THE AGE OF IDEOLOGY

3 hours

A study of nineteenth and twentieth century thinkers from Hegel to Bergson who turned philosophy from a form of science to a form of human commitment. Special emphasis is placed upon philosophies developed as instruments for social criticism and change. Historically, this course leads to Philosophy 42; it also provides valuable background for Philosophy 35 and 36.

*33 PHILOSOPHY AND PHYSICAL SCIENCE

3 hours

A study of modern man's faith and disappointments in science as a comprehensive world-outlook. Special emphasis is placed upon the methods, assumptions and general results of science, along with their implications for philosophy. This course develops ideas implicated in Core 5 and leads directly to the wider problems posed in Philosophy 34.

34: PROBLEMS OF KNOWING: EPISTEMOLOGY

3 hours

A study of how to judge man's claim to know the truth. In general, what can be claimed about the nature and the scope of human knowledge? In particular, what is the truth value of each of the various sorts of human knowledge—e.g., as expressed in moral and aesthetic claims? This course attempts a radical synthesis of the methods of knowing implicit in the Core program.

*35. PHILOSOPHY AND BEHAVIORAL SCIENCE

3 hours

A study of modern man's hope and discouragement in scientifically investigating his own doings and aspirations. Special emphasis is placed upon the peculiar founding role which philosophy has to the behavioral sciences and the continuing critical relation between them. This course develops ideas implicated in Core 6; it also leads directly to the wider problems posed in Philosophy 36.

36. PROBLEMS OF DOING: ETHICS

3 hours

A study of the relation between freedom and value. Investigation ranges from theories which claim that values are independent of human choice to those which locate all values in man's free creation or sentiment.

41. THE AGE OF ANALYSIS

3 hours

A study of one trend of contemporary philosophy, the largely Anglo-American concern with precision and exactness of thought. Special emphasis is placed upon those thinkers (such as Russell and Wittgenstein) who attempt to show us that most of our philosophical problems are not due to facts but to the way we talk about them.

**42. THE AGE OF
EXISTENTIALISM***3 hours*

A study of one trend of contemporary philosophy, the largely Continental European concern with the imprecision and irrationality of the human condition. Special emphasis is placed upon those thinkers (such as Heidegger, Sartre and Marcel) who attempt to show us that most of our philosophical problems cannot be explained away and why they cannot.

**43. REALITY AND
MAN: METAPHYSICS I***3 hours*

An introduction to the study of the most basic area of philosophy: a study of what the human experience ultimately points at. Special emphasis is placed upon how ultimate questions arise in human experience and the relevance of answers to such questions for making sense of the human situation. This course is required of all philosophy majors.

**44. REALITY'S
SOURCE:
METAPHYSICS II***3 hours*

An advanced study in metaphysics. Special attention is given to the claim that things manifest something behind or beyond them, be it matter or God. This course is required of all philosophy majors. Prerequisite: Phil. 43.

***45. PHILOSOPHY
OF RELIGION***3 hours*

A study of man's relations and responses to the divine. It seeks to uncover and explicate man's response to his recognition that there is a reality beyond the physical order upon whom he is dependent and in whom he places his trust. This course parallels Core 7.

**46. GREAT ISSUES IN
PHILOSOPHY***3 hours*

An advanced study of themes or persons permanently affecting the direction of philosophic thought. This course's content is determined by the interests of the members of the department, the general faculty and the students. Specifics are announced as the course is scheduled.

Department of Physical Education (men only)

The Department of Physical Education is designed to offer the student a knowledge of physical education in its theoretical and practical phases. Courses in the history and principles of physical education present the background upon which the profession developed and the standards which must be maintained. Other courses are offered to acquaint the student with the professional skills, techniques, and competencies that will be needed in the exercise of teaching and/or coaching duties.

Physical education majors are prepared to enter the coaching field, the teaching of health and physical education and to work in recreational activities and centers.

Students who plan to qualify for the teacher's certificate in Health and Physical Education should consult the Director of Student Teaching.

DEPARTMENTAL REQUIREMENTS

1. There are no lower level *prerequisites* for upper level courses in physical education.

2. The requirements for a *major* sequence in physical education comprise twenty-four hours in upper level courses, including the following: Physical Education 34, 35 (or Education 33) 46. The requirements for a teaching area minor are 24 hours. Courses taken to fulfill this minor must be in accordance with requirements for teacher certification.

3. Majors in Physical Education satisfy their general education requirements in Science by a sequence consisting of Biology 11 and 22 or Biology 12 and 22.

4. All Physical Education majors are required to fulfill the requirements for the licensing of teachers.

PARTICIPATION REQUIREMENTS

1. All Physical Education majors must earn a total of 12 points for graduation.

2. These points may be accumulated through varsity participation, or as a student manager, student trainer, or intramural assistant.

3. The point value would be as follows: 2 for participation in a varsity sport; 4 for lettering in a varsity sport; 3 for each sport season's work as a trainer, manager, or intramural assistant; 5 for being a student coach in a sport.

4. Any student entering Saint Joseph's from a junior college or transferring here from another institution, will be given equivalent credit for his previous participation.

5. Freshman participation in the intercollegiate program will not count toward this graduation requirement.

SUGGESTED PROGRAM

1. Freshman students majoring in physical education will take: Core 1-2; Sociology 21. Electives recommended are Physical Education 11, 16, 22, 25.

2. Electives for the sophomore year are: Biology 11, 22; Education 30, 31; Physical Education 27, 28, 30.

3. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

COURSES IN PHYSICAL EDUCATION

11. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION

3 hours

A basic course presenting a critical evaluation of social, economic, and political forces associated with the development of physical education throughout its history, and secondly, introducing the student to the fundamental facts and principles associated with Motivation, Program, Instruction, Supervision, Administration, and Evaluation in the field of physical education.

16. FIRST AID AND SAFETY EDUCATION

2 hours

A consideration of the essential elements in the theory and practice of safety in the school, in the home, in occupational activities and on the highway. Instruction in the administration of first aid and civil defense. Two lectures and one laboratory period per week.

22. GYMNASTICS AND RHYTHMIC EXERCISES

2 hours

Elements of individual and natural gymnastics; corrective exercises, calisthenics, class drill, tumbling and apparatus; fundamentals of rhythm as applied to games, plays, and songs. Two lectures and one laboratory period per week.

25. PERSONAL AND COMMUNITY HEALTH

3 hours

Personal health and the prevention of disease in the family and community; relation of sanitation and disease control to community health; communicable diseases. Three lecture periods each week.

27-28. TECHNIQUES OF MINOR SPORTS

4 hours

The first semester will present an analysis of the sports of Archery, Bowling, Golf, Isometric Conditioning, Soccer, Table Tennis, Tennis, and Wrestling. The second semester will present an analysis of the sports of Angling, Badminton, Handball, Riflery, Softball, Speedball, Volleyball and Weightlifting. Particular emphasis is given to teaching techniques, the selection and care of equipment, knowledge of rules, and instruction in the fundamentals of the activities. Laboratory periods.

PHYSICAL EDUCATION

30. PUBLIC
RECREATION AND
CAMP ACTIVITIES*3 hours*

Theory and practice of playground supervision and camp leadership. Techniques proper to arts and crafts, aquatics, outdoor recreational activities, nature study, and special programs are included. Observation of camp facilities and recreational programs.

31. RECREATION
FIELD EXPERIENCE*3 hours*

A three-week internship in recreational therapy. The student will participate in an activity therapy program under the direction of the institutional coordinator of activity therapy. The field experience is divided into three areas: observation, individual and group recreation therapy, and a written synopsis of the experience. (Available during Interterm)

32. COACHING OF
BASEBALL*2 hours*

Theory and principle of the fundamentals of baseball. A study of the history, rules, strategy, organization of practice, individual and team conditioning, administration of program and officiating. Two lectures and one laboratory period per week. (Juniors and Seniors only.)

34. KINESIOLOGY

3 hours

Application of facts and principles of anatomy, physiology and the mechanics of human motion to the teaching of sports exercise, dance and the activities of everyday living.

Prerequisite: Biology 22.

35. MEASUREMENTS
IN HEALTH AND
PHYSICAL
EDUCATION*3 hours*

A study of measurement and evaluation as applied to health, physical education, and recreation. Principles of test construction, types and characteristics of individual and group tests, application of such tests to school problems, and evaluation of results. A study of statistics as they apply to evaluation of results of measurement.

38. PRINCIPLES
AND TECHNIQUES
OF PHYSICAL
THERAPY*2 hours*

This course is designed to study the various special fields of physical rehabilitation with special emphasis upon the use of such agents as exercise, massage, heat, water, electricity and various forms of radiation. The course emphasizes the correct use of personal and field equipment, support procedures and therapeutic aids. Laboratory work includes practical techniques in the clinical use of supporting apparatus and physiotherapy. Two lectures; one laboratory period per week.

41. ACTIVITIES
FOR ELEMENTARY
GRADES*2 hours*

An analysis of dramatic play, games, rhythms, self-testing activities, playground procedures, and safety measures used in a modern program in the area. Principles of selection and evaluation of activities and teaching methods are developed. (Juniors and Seniors only.)

**42. COACHING OF
TRACK AND FIELD
EVENTS***2 hours*

Theories and principles of the fundamentals involved in track and field events. A study of the rules, history, organization of practice, individual and team conditioning, administration of program, facility layout, program of maintenance, and officiating. Two lectures and one laboratory period each week. (Juniors and Seniors only.)

**43. COACHING OF
FOOTBALL***3 hours*

Theory and practice of the fundamentals of football. A study of the history, rules, strategy, styles of attack and defense, organization of practice, individual and team conditioning, officiating and other coaching problems involved in this sport. Three lectures and one laboratory period per week. (Juniors and Seniors only.)

**45. ORGANIZATION
AND
ADMINISTRATION
OF HEALTH
EDUCATION***3 hours*

The principles, materials and problems of health education. Relation of the school health program to other agencies. Instruction in the proper use of federal, state, and commercial publications and aids to health education. A study of health, examination, reports, remedial measures, and state health regulations.

**46. THE
ORGANIZATION AND
ADMINISTRATION
OF THE PHYSICAL
EDUCATION
PROGRAM***3 hours*

A study of the foundations and principles of program, of instruction and supervision. Included is a study of the National Association of State High School Athletic Associations with an emphasis upon rules of eligibility. Consideration is given to the grouping of students, records of participation and progress, management of facilities, finance, and public relations.

**48. COACHING OF
BASKETBALL***3 hours*

Theory and practice of the fundamentals of basketball. A study of the history, rules, strategy, styles of play, organization of practice, individual and team conditioning, officiating and other coaching problems connected with this sport. Three lectures and one laboratory period per week. (Juniors and Seniors only.)

50. PRO SEMINAR*3 hours*

An introduction, by means of directed reading and individual projects, to the research methods applied to Health, Physical Education, and Recreation. A series of lectures, discussions and critiques on physical education and related areas.

**51. HONORS
SEMINAR IN
PHYSICAL
EDUCATION***3 hours***55. INDEPENDENT
STUDY***1-3 hours*

Department of Physics

The physics courses offered are designed to help the student attain:

1) An understanding and appreciation of the fundamental laws of nature. 2) Adequate preparation for work in graduate and professional schools, and secondary teaching. 3) Facility in the use of physics as a tool in engineering and sciences such as biology, geology, and chemistry.

Laboratory fees: Physics 21, 22, 24, 25, 26—each \$10.00. Physics 31 and 46—each \$15.00.

DEPARTMENTAL REQUIREMENTS

1) The requirements for a major sequence in physics are twenty-four upper division units consisting of Physics 31, 33, 34, 36, 37, 45, and 35 or 46. Requirements outside of the department include: Speech 48, Computer Science 10-S, Mathematics 45, 36, 38, 55 (fourier series and boundary values) and four hours of Chemistry. The requirements for a minor sequence in physics are twelve hours in upper level courses in physics.

2) The suggested program for a physics major entering a graduate school is to choose courses from the physics electives when satisfying his twelve hours of electives for his degree.

3) The requirements for a group major involving physics and mathematics comprises at least 18 hours of upper division physics courses, including Physics 38 and 45.

COURSES IN PHYSICS

PHYSICS I.

3 hours

This course in theoretical as well as practical physics is designed for students intending to teach in elementary schools. It does not satisfy the physics requirement for a major or minor in science. Two lectures and one two-hour laboratory period per week.

21-22. COLLEGE PHYSICS

8 hours (2 semester sequence—4 hrs. each)

This course introduces the student to the fundamental principles of mechanics, heat, sound, light, and electricity. Three lectures and one three-hour laboratory period each week. Prerequisite: Mathematics 15.

24. MECHANICS

4 hours

This course is directed toward equipping the student with the scientific approach and knowledge of fundamental laws in physics, the basic concepts and laws of vectors, equilibrium, rectilinear and rotational motion, Newton's laws, work and energy, impulse and momentum, elasticity, harmonic motion, hydrostatics, and hydrodynamics. Three lectures and one three-hour laboratory period each week. Prerequisite: Mathematics 15 and Computer Science 10-S.

**25. THERMO-
DYNAMICS SOUND,
LIGHT***4 hours*

This course is a continuation of Physics 24. It deals with the first and second laws of thermodynamics, thermal properties of solids, liquids, and gases, wave motion, vibrating bodies, acoustical phenomena, nature and propagation of light, reflection and refraction, and polarization. Three lectures and one three-hour laboratory period each week. Prerequisite: Physics 24 and Mathematics 25.

**26. ELECTRICITY
AND LAWS
OF ATOMIC
STRUCTURE***4 hours*

This course is a continuation of Physics 25 and covers the fundamentals of the electric field, potential capacitance, DC circuits electrochemistry and thermoelectricity, the magnetic field, DC instruments, induced electromotive force, inductance and capacitance, alternating currents, electronics, optical spectra and atomic structure, and nuclear reactions. Three lectures and one three-hour laboratory period each week. Prerequisites: Physics 25, Mathematics 25, 26.

**31. ELECTRICITY
AND MAGNETISM***4 hours*

This course reviews the theory and measurements of resistance, electromotive force, potentials, current, self and mutual induction, magnetic fields, Ohm's law, networks, and ballistic galvanometer. Three lectures and one three-hour laboratory period per week. Prerequisites: Physics 26.

33. STATICS*3 hours*

This course treats the fundamental principles of statics, forces, couples, systems of force, addition and subtraction of forces, equilibrium of system, stresses and strains, moment of inertia. Three lectures each week. Prerequisites: Physics 26.

34. DYNAMICS*3 hours*

This lecture course deals with translation, rotation, plane motion, motion of particles and systems of particles, momentum and periodic motion, Lagrange's and Hamilton's Equation of Motion, relativistic dynamics. Three lectures each week. Prerequisites: Physics 33.

**35. ADVANCED
OPTICS***3 hours*

This course describes the basic properties of light, geometrical optics, interference, finite velocity, polarization, and quantum phenomena. Two lectures and one three-hour laboratory per week. Prerequisites: Physics 26.

**36-37. MODERN
PHYSICS AND
MODERN PHYSICS
LABORATORY***8 hours (2 semester sequence—4 hours each)*

This two semester course in physics emphasizes recent developments: wave motion, electromagnetic radiation, kinetic theory of gases, specific heats and heat of radiation, photoelectric effect, X-rays, Bohr theory of

PHYSICS

spectra, quantum mechanics, nuclear physics, cosmic rays and relativity. Three lectures and one two-hour laboratory per week on measurements of the wave lengths of atomic spectral lines, determination of the Faraday by electrolysis, determination of the resonance potential of mercury, artificial radio-activity half-life measurements, the photo-electric effect, electron diffraction. Prerequisites: Physics 26 and Mathematics 26.

38. INTRODUCTION TO QUANTUM MECHANICS AND ATOMIC PHYSICS

4 hours

This course covers an introduction to wave mechanics, atomic structure, radiation and radiative transitions, atomic spectroscopy, X-ray spectra, molecular binding and molecular structure. Prerequisites: Physics 34, 35, 36; Mathematics 36, 55 or consent of instructor.

39. THERMODYNAMICS AND KINETIC THEORY

3 hours

This course surveys the fundamental concepts of heat, theory and practice of heat measurements, first and second laws of thermodynamics, with applications, kinetic theory of gases, with applications to the theory of specific heats. Prerequisites: Physics 26.

45. RADIOACTIVITY NUCLEAR PHYSICS, AND PARTICLE PHYSICS

3 hours

This course reviews sources, detection, and laws of radioactivity, use of activity in dating rocks, brief survey of systematics of nuclei and elementary particles, structure of stable nuclei, interaction of nuclear radiation with matter, nuclear reactions, particle accelerators, nuclear instruments, and nuclear reactors. Prerequisite: Physics 37.

46. ELECTRONICS

3 hours

This course specifies the principles of the vacuum tube and the transistor and their functions in electronic circuits. Two lectures and one three-hour laboratory period each week. Prerequisites: Physics 26.

48. RADIOBIOLOGY

3 hours

This course reviews the effect of radiation of mammalian systems, physical transport of X, gamma, neutron and beta rays through animals and consequent effect on bone marrow, intestines and central nervous systems. Prerequisite: consent of instructor.

51. HONORS SEMINAR IN PHYSICS

3 hours

55. INDEPENDENT STUDY

1-4 hours

Department of Political Science

The Political Science Department offers students an opportunity to gain a systematic understanding of the role of government and political behavior in human societies of the past and present. Such understanding is an important element of a modern college education and contributes significantly to professional and civic judgment.

Political Science is a widely used preparation for law, high school teaching, journalism, and public administration. In combination with graduate work it is a recognized preparation for college teaching or special governmental careers—as in the Foreign Service or management intern programs.

DEPARTMENTAL REQUIREMENTS

1. Either Political Science 21 or 22 is required for upper level courses in political science.

2. The requirements for a major sequence in political science are twenty-four hours in upper level courses. The requirements for a minor sequence are twelve hours in upper level courses.

SUGGESTED PROGRAM

1. Freshman students majoring in political science will take: Core 1-2; Political Science 21-22; History 23-24; electives should be taken from the areas of economics or sociology.

2. History 37 and 42, Economics 37 and 40, Sociology 31 and 38, and Theology 48 may be counted towards the twenty-four hours required for a major in Political Science in any combination and up to a maximum of nine hours.

3. Students intending to enter graduate school or the Foreign Service are urged to take at least six hours in a foreign language. Prospective graduate students are strongly encouraged also to take Sociology 31 and 38.

COURSES IN POLITICAL SCIENCE

21. AMERICAN GOVERNMENT

3 hours

A study of the formal and informal institutions of American national government and politics: The Constitution, the Presidency, Congress, the federal court system, political parties, pressure groups, public opinion, recent foreign policy, the federal bureaucracy, voting behavior. Attention is also given to current problems and issues.

22. COMPARATIVE GOVERNMENT

3 hours

The constitutional forms and methods utilized by four major foreign powers—Great Britain, France, Germany, and the U.S.S.R. Their elements of strength and weakness are compared with the U.S. system.

33. POLITICAL
PARTIES AND
PRESSURE GROUPS

3 hours

The democratic process in the U.S. is studied as a function of the two major parties and the major economic and social pressure groups.

35. CONSTITUTIONAL
LAW—THE BILL
OF RIGHTS

3 hours

An examination of Supreme Court decisions concerned with the definition of American rights in the areas of freedom of speech, press, assembly, association, and religion; church-state relations; racial discrimination; political radicalism and subversion; procedures in criminal prosecutions; military tribunals. Recommended for the prospective law student.

36. CONSTITUTIONAL
LAW — THE
AMERICAN
COMMUNITY

3 hours

An examination of Supreme Court decisions concerned with the separation of powers, federalism, the regulation of commerce, contracts, taxing and spending, and the state police power, including some of the legal problems of urban redevelopment. Recommended for the prospective law student.

37. STATE
AND LOCAL
GOVERNMENT

3 hours

A study of political systems at the state and local levels in the United States, emphasizing institutional evolution and problems along with the special pre-occupations of metropolitan areas.

40. PUBLIC
FINANCE (Econ. 40)

3 hours

A study of the principles of finance in government. Topics to be considered include public revenues and expenditures, taxation, public debt, government budgeting and fiscal policy.

41. TRADITIONAL
POLITICAL
PHILOSOPHY

3 hours

The perennial problems of political and social life, centering on law, justice, equality, the common good, and power, as seen by the pre-Socratics, Plato, Aristotle, the Stoics, St. Augustine, St. Thomas Aquinas, and including modern restatements by Christian thinkers and others.

42. MODERN
POLITICAL
PHILOSOPHY

3 hours

Modern political ideas as expressed in rationalism, empiricism, Marxism, fascism, socialism, and the welfare state.

43. INTERNATIONAL
LAW AND
ORGANIZATION

3 hours

An exploration of the possibilities of control of international conflicts through law and organizations. Analysis of prerequisites for political integration of the world. Evolution of international law. The League of Nations and the United Nations. Regional association as possible transitional forms of supranational organizations. Disarmament.

44. INTERNATIONAL
RELATIONS*3 hours*

An examination of the twentieth-century context of international relations: nationalism, imperialism, power politics, the evolution of supranational forms of political organizations, and the foreign policies of the major powers. (May be counted towards a major in History.)

45. AMERICAN
POLITICAL
THOUGHT*3 hours*

The major sources of the American intellectual tradition in politics, including the Puritans, Jefferson, the Federalist papers, Hamilton, Lincoln, the New Nationalism philosophy of Theodore Roosevelt, the New Freedom philosophy of Woodrow Wilson, and the New Deal philosophy of Franklin Roosevelt.

46. POLITICAL
BEHAVIOR*3 hours*

Approaches to the empirical or scientific study of politics including systems theory, structural-functional analysis, voting studies, and public opinion research.

50. SEMINAR IN
POLITICAL SCIENCE*3 hours*

Close examination of some significant contemporary political problem. The topic varies from year to year, but in every case the emphasis is upon independent research in depth and under supervision as the basis for individual contributions made by the students in the context of a seminar.

51. HONORS
SEMINAR IN
POLITICAL SCIENCE*3 hours*55. INDEPENDENT
STUDY*1-3 hours*

Department of Psychology

The Department of Psychology strives in its course offerings to awaken the student to a study of himself and other animate beings. Psychology studies how people perceive and think and learn, and why they act as they do. It is the science that studies human behavior.

A further purpose of the Department is to qualify the student for entrance into graduate schools of psychology, social work, sociology, and other related fields.

DEPARTMENTAL REQUIREMENTS

1. Psychology 10 is a prerequisite for all upper level courses except those marked "no prerequisite."
2. The requirements for a *major* sequence in psychology are 24 hours in upper level courses, to include Psychology 33, 38, and 40.
3. Biology 11 and 22 and Math 11 are required of all psychology majors.
4. The requirements for a *minor* sequence in psychology are any twelve hours in upper level courses.
5. There is an additional fee of \$10.00 in Psychology 35.1 and 35.2 to cover special expenses.

SUGGESTED PROGRAM

1. The following sequence of courses is recommended for the student planning on graduate school in psychology: Psychology 10, 31, 32, 37, 38, 33, 34, 35, 39, 40, 47. Students planning on graduate school in psychology should consider taking two years (or the equivalent) of French, German, or Spanish, and basic courses in Computer Science.

2. Electives for psychology majors might be taken in sociology, biology, mathematics, and computer science, as well as philosophy, theology and literature.

SOCIAL WORK PROGRAM

For the student who plans on a career in the field of social work, a combination of psychology and sociology courses is recommended. Six hours in upper level sociology courses may be counted toward a major in Psychology. After taking Sociology 21, the following courses are suggested as possibilities: Sociology 30, 33, 34, 45, 46. Also six hours in upper level Psychology courses may be counted toward a Sociology major. After Psychology 10, the following are suggested: Psychology 32, 34, 35 (35.1, 35.2), 40. Either alternative (a Psychology or a Sociology major) would be good preparation for graduate school or for immediate employment in an area of Social Work.

**COURSES IN
PSYCHOLOGY****10. GENERAL
PSYCHOLOGY***3 hours*

This course provides a general survey of the whole field of Psychology. Fundamental concepts of physiological, experimental, motivational, analytical, and abnormal, as well as of psychological testing and the psychology of learning are discussed.

**31. HUMAN
GROWTH AND
DEVELOPMENT
(Education 31.)***2 hours*

A study of the psychological characteristics of child and adolescent development with special attention given to physical, emotional, social, intellectual and religious behavior. Development is viewed genetically with emphasis placed on the normality of behavior characterizing the various stages of childhood and adolescence.

No prerequisite.

**32. THE INDIVIDUAL
AND SOCIETY:
SOCIAL
PSYCHOLOGY***3 hours*

This course concerns itself with the effects of interactions on the individual. The material will be reviewed from an interactionist framework, with the contention that human behavior and social order are products of communication.

No prerequisite.

**33. MEASUREMENT
AND EVALUATION
IN PSYCHOLOGY
AND EDUCATION
(Education 33.)***2 hours*

History of the testing movement; principles of test construction; qualities of the evaluation of teacher and standardized tests; a study of the various types of individual and group tests; basic statistical concepts, the application of tests to educational and psychological problems, and the evaluation, interpretation, and application of tests results; practice in taking and giving tests in actual educational and psychological situations.

**34. THEORIES
OF PERSONALITY***3 hours*

The contributions of Freud, Jung, Adler, Allers, Fromm, Murray, Rogers, and others are discussed in detail. Particular emphasis is placed upon application of these theories to the normal person as an aid to better self-knowledge and self-realization. No prerequisite.

**35. ABNORMAL
PSYCHOLOGY***3 hours*

The dynamics of abnormal behavior are studied as the basis for detailed consideration of the neurotic personality, psychosomatic disorders, and behavior deviations. Further topics include the effects of brain injuries and the major psychoses, especially schizophrenia. Considerable attention is given to the theories and methods of psychotherapy.

PSYCHOLOGY

**35.1 ABNORMAL
PSYCHOLOGY
PRACTICUM I***1 hour*

Weekly two-hour sessions at Dr. Norman M. Beatty Memorial Hospital, Westville, Indiana, working with the psychiatric patients under supervision of the professional staff.

Prerequisite: Psychology 35. They may be taken together.

**35.2 ABNORMAL
PSYCHOLOGY
PRACTICUM II***1 hour*

Weekly two-hour sessions in a child guidance clinic or in a special education class under the close supervision of professional persons.

Prerequisite: Psychology 35.1.

**36. PERSONALITY
PROBLEMS AND
MENTAL HEALTH***3 hours*

A study of the psychological evidence upon which the point of view, principles, and techniques of mental hygiene are based; particular application to the individual as an aid to increased self-knowledge and self-realization.

**37. HISTORY OF
PSYCHOLOGY***3 hours*

A survey of psychology against a background of modern and contemporary philosophy. The course comprises perspectives on the beginning of psychology in Germany and France, the experimentalists in America, psychology of the subject, psychology of the subconscious, Gestalt psychology and phenomenological psychology with some consideration of the existential analysis.

No prerequisite.

**38. ELEMENTARY
STATISTICS***3 hours*

An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measure of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis is on the interpretation and use of statistical analysis in the social sciences.

Prerequisite: Mathematics 11.

**39. PHYSIOLOGICAL
PSYCHOLOGY***3 hours*

This course is concerned primarily with the biological basis of behavior, with particular emphasis on the peripheral and central nervous system. The autonomic nervous system and the function of the endocrine system and their relationship to basic personality and emotions are treated. In the laboratory, emphasis is placed upon dissection of the brain and the physiological indices of emotion.

Prerequisite: Psychology 38.

**40. EXPERIMENTAL
PSYCHOLOGY***4 hours*

This course treats in detail the functioning of the external and internal senses, reaction time, and various aspects of learning. In the laboratory special emphasis is placed on the classical experiments and methods for studying these functions.

Prerequisite: Psychology 38.

**44. STUDIES IN
APPLIED
PSYCHOLOGY***3 hours*

Topic may be counselling and guidance, introduction to social work, industrial psychology, or any similar applied area.

**47. SYSTEMS AND
THEORIES IN
PSYCHOLOGY***3 hours*

A comprehensive and synthesizing course for psychology seniors. Emphasis is on contemporary schools of psychology and the science of statistics. Credit may be obtained by exam under an individual study program prepared by the department.

**51. HONORS
SEMINAR****55. INDEPENDENT
STUDY IN
PSYCHOLOGY***3 hours*

A flexibly structured course to allow the advanced student to pursue individual study in a specific area under the supervision of a member of the department. The course is available every semester but may be taken only with written permission from a member of the department.

Department of Sociology

The Department of Sociology offers both a major and a minor sequence each intended to train the student in scientific attitudes toward human behavior and social interaction, but allowing for differences in both academic and professional goals. Lectures, exercises and projects are designed to observe and analyze social realities rather than to evaluate or control them.

Majors in Sociology have found such training widely welcomed in applicants to graduate school, schools of law, social work, teaching and business, as well as the related Social Science advanced degrees. Major and minors find it an aid in entering industrial and personnel management in-training programs, community and industrial counseling organizations, and many other types of careers where social science awareness is important.

DEPARTMENTAL REQUIREMENTS

1. Sociology 21 is a requirement for majors and a prerequisite for Sociology 31, 38, 43, 49, and 50.
2. The requirements for a major sequence in Sociology are twenty-four hours in upper level courses, including Sociology 31, 38, and 43. Twelve hours in a foreign language is recommended for students contemplating graduate work.
3. Mathematics 11 is a prerequisite for Sociology 38. Computer Science 10 and 24 are recommended for students contemplating graduate work in Sociology.
4. Six hours of upper level Psychology can be counted toward a major in Sociology. Students electing Psychology as part of their major program should limit themselves to 32, 34, 35, 40, and 43.

SUGGESTED PROGRAM

1. Sociology 21 and Mathematics 11 should be taken before the second semester of the sophomore year. Sociology 38 should precede Sociology 31.
2. Those students electing a foreign language should complete the courses at the freshman and sophomore level.
3. For those wishing to teach in secondary schools, the area major in social studies is recommended. The following courses are required: Core, professional education block, 9 hours geography, 3 hours world history, 6 hours American history, 6 hours economics, 3 hours political science, and the major in Sociology.
4. On the upper level, students should see their faculty advisor prior to scheduling their junior and senior courses. They should bear in mind that, ordinarily, odd-numbered courses are scheduled for the first semester and even-numbered courses for the second.

**COURSES IN
SOCIOLOGY****21. GENERAL
SOCIOLOGY***3 hours*

An introduction to the conceptual framework of Sociology and the

**30. SOCIAL AND
CULTURAL
ANTHROPOLOGY***3 hours*

An introduction to the science of man, with emphasis placed upon the concept, culture. Through an analysis of culture, anthropology hopes to solve the mysteries of the relations of man to man.

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Scientific approach to social phenomena.

**31. RESEARCH
METHODS***3 hours*

Empirical analysis and scientific method in the study of human behavior. Principal source of data. Questionnaires and interviewing. Scale analysis. Elements of tabulation and graphing. Elementary statistical procedures.

**33. FAMILY
SOCIOLOGY***3 hours*

An analysis of the family from an institutional and structural framework. Emphasis will be placed on a review of past and current research.

**34. THE URBAN
COMMUNITY***3 hours*

The human being in the complexity of the modern city. Community and association ties. Theories of urban growth and development.

**35. SOCIOLOGY
OF EDUCATION
(Ed. 35.)***3 hours*

A study of the school as a social system as well as a basic institution in society. Emphasis will be placed on the sociological dimension of learning through reviews of contemporary social science research.

**36. INDUSTRIAL
SOCIOLOGY***3 hours*

Industrial organization as a social system. Human values and productivity.

**38. ELEMENTARY
STATISTICS***3 hours*

An introduction to the fundamentals of modern statistics. Topics to be considered include the following: descriptive statistics, frequency distributions, measures of location, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression, correlation, and time series analysis. Emphasis on the interpretation and use of statistical analysis in the social sciences. (Same as Economics 38.)

**41. SOCIAL
STRATIFICATION***3 hours*

The literature of social class and stratification. Principal methodological problems. Current interests in social class analysis. Field problems.

SOCIOLOGY

42. COMPLEX
ORGANIZATIONAL
THEORY*3 hours*

A review of the theories of large scale organizations with particular emphasis on the theories of bureaucracy and other sociological theories.

43. INTRODUCTION
TO SOCIOLOGICAL
THEORY*3 hours*

A review of the variety of theories and the assumptions behind them in the origin and development of sociological analysis during the past one hundred years. Special effort is made to develop research designs from the best theories of the past.

45. AMERICAN
MINORITIES*3 hours*

Major institutional forms of minority groups in American Society. Research concerning the causes of prejudice and discrimination.

46. CRIMINOLOGY

3 hours

Crime as a social phenomenon. The incidence, distribution and etiology of criminal behavior. Types of criminals. Changing beliefs and practices in dealing with the criminal.

49. PRO-SEMINAR:
SOCIOLOGICAL
RESEARCH DESIGN*3 hours*50. PRO-SEMINAR:
THE INDIVIDUAL
AND THE GROUP*3 hours*51. HONORS
SEMINAR:
CONTEMPORARY
SOCIAL ISSUES*3 hours*55. INDEPENDENT
STUDY*1-3 hours*

Department of Theology

The meaningful communication of revealed truth constitutes the ultimate reason for the existence of a specifically Catholic College, and in this communication the Theology Department plays an indispensable role. The Department of Theology, therefore, proposes the following as its principal aims: 1. to so introduce the student to revealed truth that it is embraced not simply as a body of truth but as a personal summons; 2. to develop in the student an appreciation of the permanence and relevance of divine truth; 3. to acquaint the student with the various areas of theological thought in their present stage of development.

In view of the new awareness of the role of the layman, the Department offers a major in theology to the student who looks forward to a more active participation in the various forms of the apostolate, such as in particular the Confraternity of Christian Doctrine, or who desire to pursue graduate study in theology.

DEPARTMENTAL REQUIREMENTS

1. The Bible and the Documents of Vatican II are required as basic texts for all the theology courses.

2. Theology 19 and 20 are prerequisites for all upper-level courses in theology.

3. Requirements for a *major* in theology are 24 hours in upper-level courses in theology so selected as to include Theology 31 and 32, and at least one course from each of the following areas: Dogmatic Theology, Theology of Community and Moral Theology. Requirements for a *minor* sequence in theology are any 12 hours in upper-level courses in theology so selected as to include one course from the area of Biblical Theology, Dogmatic Theology, or the Theology of Community, and one course from the area of Moral Theology.

19. THE OLD TESTAMENT

3 hours
A reading course in Old Testament literature.

20. THE NEW TESTAMENT

3 hours
A reading course in New Testament literature.

31. THE OLD TESTAMENT

3 hours
God's initial entrance into history by word and event. This course studies representative books of the Old Testament against the background of contemporary civilization, considering God's providential preparation for the coming of the Word.

THEOLOGY

32. THE NEW
TESTAMENT*3 hours*

God's definite entrance into history in his Word. This course studies selected books of the New Testament, against the geographic, historical and literary backgrounds of contemporary civilizations, developing principal themes of divine revelation made known in Christ.

33. THE CHRISTIAN
LAYMAN*3 hours*

After an historical study of the Christian life as lived by the layman, this course studies the theological foundations and concrete applications of the life of the layman in the areas of technology, marriage and politics.

34. THE
SACRAMENTAL
CHURCH*3 hours*

The Church continuously makes present God's salvific word and work. This course studies the Church, the primordial sacrament, as the human prolongation of the redemptive activity of Christ.

41. GOD AND
CREATION*3 hours*

This course studies God's self-manifestation in the history of salvation, as contained in the Old and New Testament, and proclaimed in and through the living magisterium of the Church. Emphasis is given to current questions about God and the God-world relationship.

44. CHRISTIAN
MORALITY*3 hours*

Through class discussion this course acquaints the student with some of the contemporary moral problems of the day, and the principles underlying their solution.

45. CONTEMPORARY
QUESTIONS IN
DOGMA*3 hours*

This course investigates, at a deeper level than is possible in a more general course, some of those questions that are of predominant interest in current theological discussion.

48. SOCIAL
THEOLOGY I*3 hours*

This course aims to set forth the teaching of the Church in matters pertaining to political and sociological questions. It is problem orientated. The content of the social encyclicals, recent papal pronouncements, conciliar statements and current theological thought is emphasized and applied to current questions in the areas.

49. SOCIAL
THEOLOGY II (Same
as Economics 49)*3 hours*

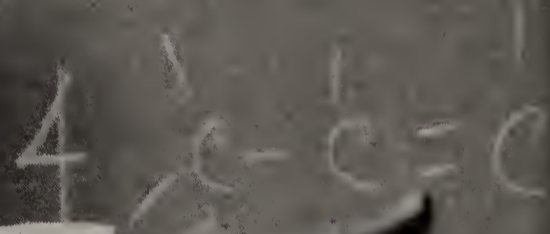
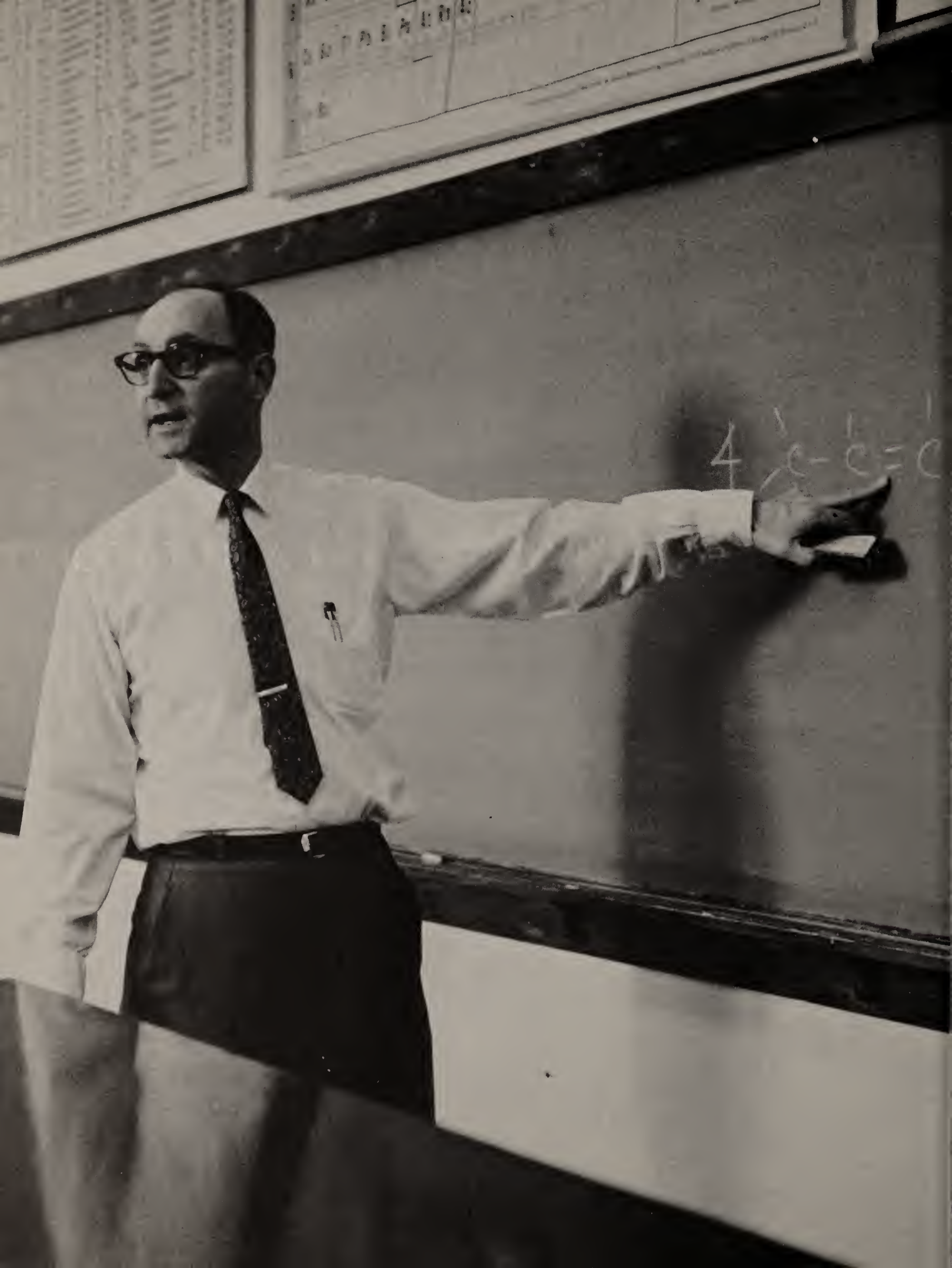
This course aims to set forth the teaching of the Church in matters pertaining to business and economics. It is problem orientated. The content of the social encyclicals and other recent papal documents and conciliar statements is emphasized and applied to current socioeconomic questions.

THEOLOGY SEMINAR
(for Majors only)**46. THEOLOGY
SEMINAR***3 hours*

This course will be taught by three members of the department. A particular question or theme in theology will be followed through and developed in the three periods of patristic, scholastic and contemporary theological thought.

**55. INDEPENDENT
STUDY***1-3 hours*

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[†]C.PP.S. These letters are the abbreviations of Congregatio Pretiosissimi Sanguinis, the official name of the Society of the Precious Blood. All the priests and brothers at Saint Joseph's are members of this religious community.

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Kenneth J. Zawodny	<i>Director of Computer Center</i>

*On leave for graduate study.

FACULTY 1970-71

Charles H. Banet, C.PP.S.
(1949)

President and Associate Professor of Classical Studies
M.A.L.S., University of Michigan, 1951; *ibid.*, 1951-52; Appointed President, 1965; American Council on Education Presidents' Institute, University of Wisconsin, Summer, 1967; Litt.D. Saint Joseph's College Calumet Campus, 1969.

Vincent Balice, C.PP.S.
(1965)*

Instructor in English
B.A., University of Dayton, 1964; University of Detroit, 1964-65; Purdue University, 1966.

Donald L. Ballmann,
C.PP.S. (1956)

Director of Development for Foundations and Government Relations and Associate Professor of Geology
M.S., University of Illinois, 1956; Ph.D., *ibid.*, 1959; American Geological Institute, British Isles, Summer, 1961; American Council on Education Institute for Academic Deans, Denver University, 1966.

Rudolph P. Bierberg,
C.PP.S. (1958)
Robert J. Blesson (1963)

Religious Superior and Professor of Theology
S.T.L., Catholic University of America, 1941; S.T.D., *ibid.*, 1943.
Assistant Librarian with rank of Assistant Professor
M.S.L.S., Villanova University, 1963.

Joseph Boton, C.PP.S.
(1969)
Donald E. Brinley (1955)

Director of Summer Session and Instructor in Theology;
M.A., Dayton University, 1968.
Associate Professor of Philosophy
A.M., Catholic University of America, 1951; Ph.D. (Cand.), Indiana University.

Allen J. Broussard
(1964)

Chairman, Department of Accounting-Finance and Assistant Professor of Accounting

John J. Bucholtz (1962)

M.B.A., University of Arkansas, 1960; C.P.A., State of Indiana, 1968.
Chairman, Department of Political Science and Associate Professor of Political Science
M.A., Princeton University, 1959; Ph.D., *ibid.*, 1967.

Roy E. Burkey (1965)

Assistant Professor of Business Administration
M.B.A., Ohio State University, 1962; Ph.D. (Cand.), *ibid.*

Ralph M. Cappuccilli
(1948)

Chairman, Department of Communications and Theatre Arts and Associate Professor of Communications and Theatre Arts
A.M., University of Michigan, 1951; Ph.D., Purdue University, 1967

Raymond M. Cera, C.PP.S.
(1948)

Associate Professor of Romance Languages
M.A., Saint John's University (Brooklyn), 1951.

David D. Chesak (1970)

Assistant Professor of Mathematics
M.E.E., University of Louisville, 1963; Ph.D. (Cand.) Ohio University, 1970.

Thomas F. Crowley (1968)

Assistant Professor of Accounting
M.A.S., University of Illinois, 1968; C.P.A., State of Illinois, 1968.

Michael E. Davis (1952)

Chairman, Department of Geology and Associate Professor of Geology
M.S., Kansas State University, 1951; N.S.F., Summer Institute, Millsaps College, 1968.

*On leave for graduate study

- William L. Downard
(1969)
Assistant Professor of History
M.A., Cincinnati University, 1965; Ph.D., Miami University (Ohio), 1969.
- Boniface R. Dreiling,
C.PP.S. (1940)
Associate Professor of Physics
M.S., Catholic University of America, 1940; University of Chicago, 1943-46.
- Marcellus M. Dreiling,
C.PP.S. (1939)
Associate Professor of Mathematics
M.S., Catholic University of America, 1939.
- Alvin W. Druhman, C.PP.S.
(1948)
Secretary of the College and Professor of English
M.A., Saint John's University (Brooklyn), 1950; Ph.D., *ibid.*, 1952.
- John B. Egan (1962)
Associate Professor of Music
Ph.D., Indiana University, 1962.
- Anne-Marie Egan (1962)
Assistant Professor of Music
M.A., Indiana University, 1957; Ph.D. (Cand.), *ibid.*
- Rufus H. Esser, C.PP.S.
(1925)
President 1937-38 and Professor of English
M.A., Catholic University of America, 1927; Indiana University, Summers, 1930, 1931.
- Thomas W. Ewart (1970)
Assistant Professor of Economics
M.S., Purdue University, 1966; Ph.D. (Cand.), *ibid.*
- Cynthia A. Felch (1970)
Assistant Professor of German
Woodrow Wilson Fellow, 1959-61; M.A., Rutgers University, 1962; Fulbright Fellow, University of Vienna, 1962-63; Ph.D., (Cand.) Rutgers, University.
- Patrick Fitzgerald, C.PP.S.
(1969)
Instructor in Theology
M.A., University of Dayton, 1969.
- Ernest A. Fritsch (1967)
Instructor in Physical Education
B.S., University of Detroit, 1961; M.S. (Cand.), Indiana State University.
- Rodney J. Gaard
(1969)
Instructor in Economics
M.A., University of Iowa, 1969.
- Lawrence F. Garreffa (1970)
Instructor in Psychology
Public Health Fellow, Wayne State University, 1966-70; M.A., *ibid.*, 1969. (Cand.), *ibid.*
- Louis C. Gatto (1957)
Vice-President for Academic Affairs; Academic Dean; and Professor of English
University of Minnesota, 1950-51; A.M., DePaul University, 1956; Ph.D., Loyola University (Chicago), 1965; American Council on Education Fellow in Academic Administration, Lawrence University, 1966-67; Institute for Academic Administrators, Boston University, Summer, 1967.

*On leave for graduate study.

ADMINISTRATION AND FACULTY

- Dominic B. Gerlach, C.PP.S. (1952) *Associate Professor of History*
M.A., Saint Louis University, 1952; University of Michigan, Summer, 1956. Goethe Institute, Munich, Summer, 1962; Catholic University of America, Summer, 1965.
- Philip F. Gilbert, C.PP.S. (1961) *Assistant Professor of Mathematics*
B.S., Saint Joseph's College, 1952; University of Detroit, 1960-61; M.S., University of Illinois, 1964.
- John D. Groppe (1962) *Associate Professor of English*
M.A., Columbia University, 1957; University of Notre Dame, 1957-1962. Institute for Ecumenical Research, Saint John College, Collegeville, Minn., 1969.
- Raphael H. Gross, C.PP.S. (1941) *President 1951-65; Director of Fellows Program, and Professor of English*
A.M., University of Michigan, 1941; Ph.D., University of Montreal, 1952; LL.D., Saint Joseph's College, 1967.
- Norman L. Heckman, C.PP.S. (1940) *Chairman, Department of Chemistry and Associate Professor of Chemistry*
University of Wisconsin, 1943-44; A.M., Indiana University, 1947.
- Ambrose J. Heiman, C.PP.S. (1969) *Professor of Philosophy*
M.A., University of Toronto, 1942; L.M.S., Pontifical Institute of Medieval Studies, Toronto, 1947; Ph.D., University of Toronto, 1949; S.T.L., The Catholic University of America, 1953.
- Lawrence F. Heiman, C.PP.S. (1943) *Chairman, Department of Music and Associate Professor of Music*
M.A., Catholic University of America, 1949; Marquette University, Summer, 1950; L.C.G., Pontifical Institute of Sacred Music (Rome), 1958; M.C.G., *ibid.*, 1959; C.Mus.D., *ibid.*, 1970.
- James H. Holstein (1959) *Instructor in Physical Education*
B.S., University of Cincinnati, 1956.
- David H. Hoover (1966) *Assistant Professor of History*
M.A., University of Cincinnati, 1965.
- William G. Jennings (1965) *Assistant Professor of Physical Education*
M.Ed., Loyola University (Chicago), 1963.
- Edward J. Joyce, C.PP.S. (1964) *Vice-President for Public Relations and Development and Associate Professor of Theology*
S.S.L., The Biblicum (Rome), 1959; S.T.L., The Angelicum (Rome), 1957; S.T.D., *ibid.*, 1960.
- Ira L. Karp (1969) *Chairman, Department of Physics and Associate Professor of Physics*
M.A., University of California, 1952; Ph.D., University of Washington, 1966.

*On leave for graduate study.

SAINT JOSEPH'S COLLEGE

- G. Robert Kasky (1966) *Assistant Professor in Accounting*
M.B.A., Indiana University, 1963; C.P.A., State of Illinois, 1964.
- Paul E. Kelly (1950) *Chairman, Department of Business Administration and Professor of Marketing*
A.M., Colorado State College, 1941; Ford Foundation Fellowship, Indiana University, Summer, 1959.
- James A. Kenny (1964)* *Clinical Psychologist and Associate Professor of Psychology*
M.S.W., Loyola University (Chicago) 1957; Ph.D., University of Mainz, 1962. On sabbatical, 1970-71.
- Charles M. Kerlin (1968) *Chairman, Department of English and Assistant Professor English*
M.A., Purdue University, 1961; Ph.D., University of Colorado, 1968.
- John R. Klopke, C.PP.S. (1955) *Associate Professor of Philosophy*
M.A., Fordham University, 1955; Ph.D., University of Toronto, 1961.
- Leonard J. Kostka, C.PP.S. (1948) *Chaplain and Associate Professor of Theology*
J.C.L., Catholic University of America, 1942; Seton Hall University, Summer, 1948; Saint Louis University, Summer, 1954.
- William J. Kramer, C.PP.S. (1953) *Director of Core Curriculum and Professor of Chemistry*
L.Sc.N., University of Fribourg (Switzerland), 1951; Sc.D., *ibid.*, 1952.
- Hermes D. Kreilkamp, O.F.M.Cap. (1967) *Associate Professor of History and Philosophy*
S.E.O.L., Pontifical Oriental Institute (Rome), 1951; M.A., Catholic University of America, 1966; Ph.D., *ibid.*, 1964.
- Clement J. Kuhns, C.PP.S. (1948) *Associate Professor of Classical Languages*
M.A., Catholic University of America, 1952; Loyola University, 1969-70.
- Frederick R. Lang, C.PP.S. (1960) *Chairman, Department of Foreign Languages and Assistant Professor of Classical Languages*
M.A., University of Michigan, 1962; Ph.D., Pontifical Institute of Higher Latinity, Rome, 1969.
- Joseph A. Lazur, C.PP.S. (1960) *Assistant Professor of Theology*
S.T.L., Laval University, 1961; The Biblicum (Rome), 1965-67.
- Eileen E. Liette (1969) *Assistant Professor of Education*
M.S.T. (Reading), University of Chicago, 1967; Ph.D. (Cand.), Case Western Reserve University.
- Jose Luzay (1969) *Associate Professor of French*
M.A. (Classical Languages), Jesuit College (Albania), 1930; M.A. (Literature), Sorbonne, 1935; M.S. (Philosophy), *ibid.*; LL.D., Albania Law College, 1935; Ph.D., Sorbonne, 1937; Litt.D., *ibid.*, 1938.
- James C. McCabe, C.PP.S. (1965) *Librarian with rank of Assistant Professor*
University of Detroit, 1958-59; M.S.L.S., Catholic University of America, 1961; Summer 1961, National Archives (American University); Summer, 1964, University of Detroit.

*On leave for graduate study.

ADMINISTRATION AND FACULTY

- Edward P. McCarthy,
C.PP.S. (1958)
Charles B. Mack (1966)
Ralph A. Marini (1960)
John A. Marling, C.PP.S.
(1938)
Andrew G. Mehall (1961)
Bernard J. Meiring, C.PP.S.
(1957)
Paul A. Mourani (1968)
John P. Nichols (1968)
Curtis M. Paulsen (1962)
John P. Posey (1969)
Ernest W. Ranly, C.PP.S.
(1956)
John Ravage (1965)
Donald H. Reichert (1966)
Charles J. Robbins, C.PP.S.
(1940)
- Associate Professor of Philosophy*
M.A., Catholic University of America, 1945.
- Assistant Professor of Biology*
M.S., Ball State University, 1969.
- Associate Professor of Finance*
M.B.A., Marquette University, 1960; Ford Foundation Faculty Fellowship, Indiana University, Summer, 1963.
- Associate Professor of Mathematics*
B.S., Saint Joseph's College, 1938; Catholic University of America, Summer, 1938; John Carroll University, Summer, 1951.
- Chairman, Department of Biology; Pre-medical Advisor; and Associate Professor of Biology*
M.S., Syracuse University, 1961; N.S.F. Summer Institute, University of Washington, 1965; Ph.D., University of Illinois, 1970.
- Chairman, Department of Education and Associate Professor of Education*
M.A., University of Detroit, 1957; Ph.D., University of California, 1963; Tri-University Project in Elementary Education, New York University, 1968-69.
- Assistant Professor of Economics*
M.B.A., Indiana University, 1966; Ph.D. (Cand.), *ibid.*
- Assistant Professor of Philosophy*
S.T.L., Catholic University of Fribourg, 1963; Ph.L., Catholic University of Louvain, 1965; Ph.D., *ibid.*, 1967.
- Associate Professor of Mathematics*
M.S., University of South Dakota, 1960; M.A., University of Missouri, 1961.
- Associate Professor of History*
M.A., University of Georgia, 1959; Ph.D., *ibid.*, 1962; Ford Foundation Fellowship, Institute of Far Eastern History and Civilization, Florida State University, Summer, 1965.
- Associate Professor of Philosophy*
M.A., Saint Louis University, 1958; University of Chicago, Summer, 1968; Ph.D., Saint Louis University, 1964.
- Assistant Professor of Communications and Theatre Arts*
M.A., (English) Ball State University, 1961; M.A., (Theatre), University of Illinois, 1968; Summer, 1967, University of Iowa.
- Associate Professor of Education*
M.A., Ohio State University, 1956; Ph.D., *ibid.*, 1966.
- Registrar; Director of Financial Aids; and Associate Professor of Classical Languages*
M.A., Catholic University of America, 1945.

*On leave for graduate study.

SAINT JOSEPH'S COLLEGE

Joseph V. Rodak, C.PP.S.
(1965)

Assistant Professor of Classical Languages
1962-63, University of Detroit; M.A., John Carroll University, 1965.

Jacob S. Rodia* (1963)

Associate Professor of Chemistry
M.S., University of Illinois, 1948; Ph.D., *ibid.*, 1952; N.S.F., Summer Institute, University of Akron, 1968; N.S.F., Summer Institute, Duke University, 1969. On Sabbatical, 1970-1971.

Edward M. Roof, C.PP.S.
(1929)

Professor of Latin
M.A., Catholic University of America, 1931.

Charles R. Rueve, C.PP.S.
(1946)

Chairman, Department of Mathematics and Professor of Mathematics
M.S., University of Notre Dame, 1949; Ph.D., *ibid.*, 1963.

Ambrose A. Ruschau, C.PP.S.
(1955)

Associate Professor of Physics
M.S., Saint Louis University, 1956; N.S.F. Summer Institute in Radioisotope Technology, University of Michigan, 1964.

Martin D. Ryan (1959)

Director of Institutional Research; Chairman, Department of Sociology; and Associate Professor of Sociology
M.A., Purdue University, 1961; Ph.D. *ibid.*, 1967.

Thomas M. Ryan (1963)

Director of Guidance and Assistant Professor of Education
M.A., University of Dayton, 1941; University of Cincinnati, 1947-48, Summer, 1948.

Richard F. Scharf (1940)

Chairman, Department of Physical Education; Director of Athletics; Director of Placement; and Associate Professor of Physical Education
M.S., in P.Ed., Indiana University, 1949; H.S.D. (Cand.), *ibid.*

Walter A. Scherb (1969)

Assistant Professor of Business Administration
M.S., Northern Illinois University, 1967.

Faten Shaker (1970)

Assistant Professor of Sociology
Fulbright Fellow, 1964-1969; M.A., Texas Woman's University, 1966; Traveling Scholar, University of Chicago, 1968; Ph.D. (Cand.), Purdue University; Research Fellow, University of Jedda (Saudi Arabia), 1970.

Donald F. Shea, C.PP.S.
(1947)

Chairman, Department of History and Professor of History
A.M., University of Michigan, 1947; Ph.D., Loyola University (Chicago), 1956; Harvard University, Summer, 1958; Visiting Scholar in History, Columbia University, Summer, 1964.

Thomas Sherlock, C.PP.S.
(1969)

Instructor in Theology
M.A., Dayton University, 1968.

Urban J. Siegrist, C.PP.S.
(1936)

Director of the Institutum Divi Thomae Research Station and Professor of Biology
M.S., Catholic University of America, 1936; Ph.D., Institutum Divi Thomae, 1958.

*On leave for graduate study.

ADMINISTRATION AND FACULTY

- Lyle H. Sleeman (1963) *Associate Professor of Geology*
M.S., Kansas State University, 1959; Ph.D., University of Missouri, 1964; N.S.F., Summer Institute, Indiana University, 1964; N.S.F., Summer Institute, Pennsylvania State University, 1965; N.S.F., Research Participant, University of Wyoming, Summers, 1966, 1967; N.S.F., Summer Institute, Southwest Center of Advanced Studies, 1968; NSF., Summer Institute, Virginia Polytechnic Institute, 1969.
- Gary E. Smith (1968) *Assistant Professor of Music*
M.M., Ball State University, 1968.
- Alphonse Spilly, C.PP.S. (1967)* *Instructor in Theology*
M.A., University of Dayton, 1967.
- Cyril R. Sutter, C.PP.S. (1960) *Chairman, Department of Psychology and Associate Professor of Psychology*
M.A., Fordham University, 1956; M.S., *ibid.*, 1958; Ph.D., *ibid.*, 1961.
- David J. Van Horn, C.PP.S. (1962) *Chairman, Department of Art and Assistant Professor of Art*
Fulbright Fellowship in Italy, 1961-62; M.F.A., Chicago Art Institute, 1965. On sabbatical, 1970-71.
- William G. Verbrugge (1967) *Assistant Professor of Mathematics*
M.S., Illinois Institute of Technology, 1965.
- Willard G. Walsh (1954) *Associate Professor of Communications and Theatre Arts.*
M.F.A., Fordham University, 1949; Certificate, American Academy of Dramatic Arts, 1953.
- Paul E. Wellman, C.PP.S. (1957) *Vice-President for Business Affairs and Assistant Professor of Business Administration*
M.B.A., Marquette University, 1962.
- Paul R. White, C.PP.S. (1956) *Executive Vice-President; Acting Chairman, Department of Economics and Associate Professor of Economics*
University of Michigan, Summer, 1955; M.A., Catholic University of America, 1956; Cornell University, 1960.
- Carole Jean Womelsdorff (1966) *Instructor in English*
M.A., Hardin-Simmons University, 1965.
- Clayton A. Womelsdorff II (1966) *Assistant Professor of Political Science*
M.A., (Political Science), Baylor University, 1956; M.A., (Economics), Hardin-Simmons University, 1961.
- Robert E. Wood (1961) *Chairman, Department of Philosophy and Associate Professor of Philosophy*
M.A., Marquette University, 1961; Ph.D., *ibid.*, 1967.
- Lawrence J. Wyen, C.PP.S. (1970) *Instructor in English*
M.A., University of Dayton; M.A. University of Detroit, 1970.
- John E. Young (1969) *Assistant Professor of Chemistry*
M.A., University of Missouri, 1965; Ph.D. (Cand.), University of Iowa.
- Kenneth J. Zawodny (1966) *Director of Computer Center with rank of Assistant Professor*
B.S., Saint Joseph's College, 1969.

*On leave for graduate study.

EMERITI

Joseph Hiller, C.PP.S.
(1933-1970)

Professor Emeritus of German

M.A., Catholic University of America, 1932; University of Cincinnati, 1935-37; Ph.D., Catholic University of America, 1940.

Edwin Kaiser, C.PP.S.
(1944-66)

Professor Emeritus of Theology

S.T.D., Saint John Lateran, 1923; Gregorianum University, 1923-24; Saint Louis University, Summer, 1947; Litt.D., Saint Joseph's College, 1967.

Joseph B. Kenkel, C.PP.S.
(1922-66)

President, 1927-37 and Professor Emeritus of Economics

Ph.D., Catholic University of America, 1922. LL.D., Saint Joseph's College, 1970.

Clarence J. Kroeckel,
C.PP.S. (1933-67)

Professor Emeritus of Biology

M.S., Catholic University of America, 1933; University of Chicago, 1944; University of Notre Dame, 1945-48; The Marine Biological Laboratory, Woods Hole, Massachusetts, Summer, 1958.

Adam P. Lesinsky
(1958-66)

Professor Emeritus of Music

M.M., American Conservatory of Music, 1944.

Ildephonse J. Rapp, C.PP.S.
(1904-49)

Professor Emeritus of English

A.B., Saint Joseph's College, 1899; Litt.D., *ibid.*, 1954.

Paul C. Tonner (1918-63)

Professor Emeritus of Music

B. Mus., University Extension Conservatory, Chicago, 1931; Van Der Cook Conservatory of Music, Summer, 1949; Litt.D., Saint Joseph's College, 1958.

APPENDIX

ASSOCIATE
FACULTY

- John R. Baumann (1963) *Lecturer in Education*
M.A.T., Indiana University, 1965.
- Daniel E. Ellis (1969) *Lecturer in Accounting-Finance*
B.S., Saint Joseph's College, 1969; Loyola University, 1969.
- Charles A. Halleck (1969) *Distinguished Lecturer in History*
LL.B., Indiana University, 1924; LL.D., Saint Joseph's College, 1954.
- John Kenney (1968) *Lecturer in Physical Education*
M.S., Indiana State University, 1966.
- Richard D. Knudten (1970) *Lecturer in Sociology*
M.A., Pacific School of Religion, 1957; M. A., University of California, Berkeley, 1959; M.A., Western Reserve University, 1959; Ph.D., *ibid.*, 1964.
- Dennis G. Lavery (1969) *Special Assistant to the Office of Development and Lecturer in English and Education*
M.A., Valparaiso University, 1968.
- Donna Leitte, C.PP.S. (1970) *Lecturer in Education*
M.A., New York University, 1969.
- John Nesbitt (1961) *Lecturer in Business Law*
B.S., Purdue University, 1958; J.D., Indiana University, 1958; Member of the Indiana Bar Association and American Bar Association.
- George L. Post (1969) *Lecturer in Physical Education*
M.S., Purdue University, 1969.
- Charles J. Schuttrow (1965) *Director of Public Information and Lecturer in Journalism.*
B.A., Saint Joseph's College, 1963.

APPENDIX

GIFTS AND BEQUESTS

Gifts and bequests of money, securities or real estate are gratefully received by Saint Joseph's College. Many additions have thus been made to the resources of the institution.

To serve the College in this way it is not necessary to make a large bequest. There are doubtless many who without injury to family or other interests could bequeath \$500, \$1,000, or \$5,000; and some who might bequeath a much larger sum.

Unless other use is specified, it is the general policy of the institution to designate funds so given as a part of the permanent endowment of the institution.

In order to be valid in most states, a will must be signed by the testator in the presence of a least two disinterested witnesses who should attest the instrument as such witnesses.

FORM OF GENERAL BEQUEST

I hereby give and bequeath to Saint Joseph's College, situated at Rensselaer, Indiana, forever, for the use of said institution in fulfillment of its general corporate purposes. (State here the sum of money which you desire to give, or describe the property or securities constituting the bequest.)

ANNUITIES

Anyone desiring to further the education of Catholic youth and the progress of training under Catholic auspices through the annuity plan may secure detailed information concerning the plan sponsored by Saint Joseph's College by writing to the Director of Development for Estates and Wills, Saint Joseph's College, Rensselaer, Indiana 47978.

APPENDIX

COOPERATING
SCHOOLS
TEACHER
PROGRAM

As part of Saint Joseph's education degree program, students are offered the opportunity to obtain one semester of actual in-class teaching experience through the cooperation of area school corporations. Presently, six school corporations, eleven schools, and 40 teachers participate in this program:

Kankakee Valley School Corporation
James Moore, Superintendent

North Newton School Corporation
William Freel, Superintendent

Rensselaer Central School Corporation
Robert Ayres, Superintendent

Saint Augustine's School
Richard Riedel, C.P.P.S., Pastor

South Newton School Corporation
Kedrick Fisher, Superintendent

Tri-County School Corporation
William Christopher, Superintendent

Demotte High School
Kenneth Blad, Principal
Norman Abrring, mathematics
Joseph McFarland, English
Larry Sakel, social studies

Wheatfield High School
Virgil Little, Principal
Mrs. Veral Hanger, English
Daniel Koenig, social studies

Morocco Elementary School
Claude Beatty, Principal
Mrs. Pearl Baker, elementary
Mrs. Billie Bingham, elementary
Mrs. Cora McDonald, elementary

North Newton High School
William Anderson, Principal
Richard Brunton, physical education
Mrs. Shirley Lewis, English
Willis Pullins, social studies

SAINT JOSEPH'S COLLEGE

Rensselaer High School
Richard Roberts, Principal
John Baumann, mathematics
Stephen Brandenburg, biology
Joseph Burvan, physical education
Mrs. Phyllis Cappuccilli, English
Marvin Hicks, music
Mrs. Nancy Messman, physical education
Arthur Middleton, biology
John Potter, social studies
Robert Smart, business
Glen Steele, music
Vaughn Waters, social studies

Rensselaer Middle School
Richard Graham, Principal
Theodore Hamacher, social studies
Robert Herod, science
Dale Hummer, physical education
Mrs. Helen Watts, English and social studies

Monnett Elementary School
Edward Hanrahan, Principal
Beulah Arnott, elementary
Mrs. Ruth Yeoman, elementary

Van Rensselaer Elementary
Lester Baer, Principal
Hal Gray, music
Beverly Hackley, elementary
Mrs. Buthene Haskell, elementary

Saint Augustine School
Sr. Irene Holz, C.P.P.S., Principal
Sr. Donna Liette, C.P.P.S., elementary

South Newton High School
Louis Smith, Principal
Joseph Fellicelli, social studies
Gerald Knorr, social studies
Ronald Scott, social studies
Larry Weiand, social studies

Wolcott High School
Jerry Lelle, Principal
Mrs. Helen Correll, English
Rodney Nesius, physical education
Richard Wheeler, social studies

APPENDIX

PLACEMENT OFFICE
RECRUITING
COMPANIES

Each year, over 100 business firms interview SJC seniors for possible future job opportunities. The college Placement Office assists these firms and the participating students by maintaining personnel files on students and by disseminating job information to them.

The companies which visit Saint Joseph's during the school year include:

Altschuler, Melvoin & Glasser, CPA
 Alexander Grant & Co., CPA
 Anaconda Wire & Copper Co.
 Aetna Life & Casualty Co.
 Arthur Andersen & Co., CPA
 Arthur Young & Co., CPA
 American International Oil Co.
 Bureau of Federal Credit Unions
 Bansley & Kiener, CPA
 Baxter Laboratories
 Brunswick Corp.
 Bucyrus-Erie
 Burger Chef System, Inc.
 Bankers Life & Casualty Co.
 Burroughs Corp.
 Caterpillar Co.
 Chubb & Son, Inc.
 Clark Equipment
 College Life Insurance
 Crowe, Chizek & Co., CPA
 Continental Steel Corp.
 Commonwealth Edison
 Chicago Board of Education
 Commodities Exchange
 Credithrift Financial Corp.
 Chevrolet Motor Division
 Del Monte Sales Co.
 Defense Contract Audit Agency
 Defense Supply Agency
 Dun & Bradstreet
 Ernst & Ernst, CPA
 Employers Commercial Union Insurance Corp.
 Field Enterprises Educational Corp.
 Federal Deposit Insurance Co.
 Firestone Tire & Rubber Co.
 Ford Motor Co.
 General Telephone
 Gary School Corp.
 GMAC
 & Sells, CPA
 Kerr, Forster & Co., CPA

SAINT JOSEPH'S COLLEGE

Hurdman & Cranston, CPA
Hartford Insurance
Hyster Co.
Indiana Public Service
Illinois Central Railroad
Internal Revenue
IBM
Inland Steel
Indiana Bell
Jefferson Standard Life Insurance Co.
J. C. Penny & Co.
John Hancock
Keebler Co.
Koeneman, Borger, Krouse. Dinius & Erb. CPA
Lincoln National Life Insurance
Laventhal, Krekstein, Horwath & Horwath, CPA
Lever Bros.
Lybrand, Ross Bros. & Montgomery, CPA
Main La Frenz & Co., CPA
Montgomery Ward
Marion Labs
Minnesota National Life Insurance Co.
Metropolitan Life Insurance Co.
Magnavox
Murphy Lanier & Quinn, CPA
Motorola
New York Life Field Auditing
New York Life Insurance Co.
Northwestern Mutual Life Insurance Co.
Osco Drugs
Owens Illinois
George S. Oliver & Co.
Peat, Marwick & Mitchell & Co., CPA
Purdue University, Business Training Center
Price Waterhouse & Co., CPA
Proctor & Gamble
Prudential Insurance
Retail Credit Co.
Rutten, Welling & Co., CPA
Ryerson Steel
Regional Administration of National Banks
Sears, Roebuck & Co.
S. S. Kresge Co.
State Farm Insurance
Social Security
Shell Oil
Standard Register

APPENDIX

20th Bankers Life & Casualty
Touche, Ross, Bailey & Smart, CPA
Trans Union Corp.
UARCO Inc.
UniRoyal, Inc.
U. S. Department of Agriculture, Commodity Exchange Authority
U. S. Department of General Accounting
U. S. Department of Health, Education and Welfare
U. S. Department of Public Health
U. S. Treasury Department, Intelligence Division
Wright-Patterson Air Force Base
Wallace Business Forms
Woolworth Co.
Waukegan City Schools
Xerox Corp.

1970-71

COLLEGE CALENDAR

1ST SEMESTER

August 29-September 1 (Saturday-Tuesday)	Enrollment and Orientation of new students.
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September 1 (Tuesday)	Registration for returning students.
September 2 (Wednesday)	Classes begin at 8:00 A.M.
September 9 (Wednesday)	Limit for change in class schedule.
	Last day to register Independent Study projects for the 1st semester.
<hr/>	
October 1 (Thursday)	Limit for upper classmen and second semester freshmen to withdraw from courses.
	Limit for applying for credit by examination.
October 10 (Saturday)	Homecoming. No classes.
October 23 (Friday)	Mid-term grades for freshmen due.
<hr/>	
November 2 (Monday)	Limit for first semester freshmen to withdraw from classes or for all students to declare the pass/not pass option for eligible courses.
November 25-29 (Wednesday-Sunday)	Thanksgiving vacation. No classes.
November 30 (Monday)	Classes resume at 8:00 A.M.
<hr/>	
December 4 (Friday)	Honors Papers due at the Academic Dean's office.
December 19 (Saturday)	Last class day of Semester I.

INTERTERM

January 4 (Monday)	Registration from 9-11 A.M. Classes begin at 2:00 P.M.
January 22 (Friday)	Last day of interterm classes.

2ND SEMESTER

January 26-27 (Tuesday-Wednesday)	Enrollment and Orientation of new students.
January 27 (Wednesday)	Registration for returning students.
January 28 (Thursday)	Classes begin at 8:00 A.M.

February 3 (Wednesday)	Limit for change in class schedule. Last day to register Independent Study projects for the 2nd semester. Limit for the removal of first semester incomplete grades.
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February 25 (Thursday)	Limit for upper classmen and second semester freshmen to withdraw from courses. Limit for applying for credit by examination.
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March 19 (Friday)	Mid-term grades for freshmen due.
March 29 (Monday)	Limit for first semester freshmen to withdraw from classes or for all students to declare the pass/not pass option for eligible courses.

April 3 (Saturday)	Easter vacation begins after last Saturday class.
April 13 (Tuesday)	Classes resume at 8:00 A.M.

May 1-2 (Saturday-Sunday)	Parents' Weekend
May 14 (Friday)	Honors Papers due at Academic Dean's office.
May 22 (Saturday)	Last class day of Semester II.
May 30 (Sunday)	Commencement.

June 21- July 30	Summer Session
June 26 (Saturday)	Limit for removal of second semester incomplete grades.

CALENDAR FOR 1970

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28
25	26	27	28	29	30	31	..	..	..	..	..	..	..	29	30	31	..	..	..	..
..
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	..	..	1	2	..	1	2	3	4	5	6
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
26	27	28	29	30	..	..	24	25	26	27	28	29	30	28	29	30	..	..	..	..
..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	..	..	..	1	..	..	1	2	3	4	5
5	6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31	..	23	24	25	26	27	28	29	27	28	29	30	..	..	..
..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	1	2	3	4	5	6	7	..	..	1	2	3	4	5
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..
..

CALENDAR FOR 1971

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	..	1	2	..	1	2	3	4	5	6	..	1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28	..	..	..	..	..	..	28	29	30	31	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	..	1	..	..	1	2	3	4	5
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30	..	23	24	25	26	27	28	29	27	28	29	30	..	..	..
..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	1	2	3	4	5	6	7	..	..	..	1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31	..	..	..	..	26	27	28	29	30	..	..
..
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	..	1	2	..	1	2	3	4	5	6	..	..	..	1	2	3	4
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
24	25	26	27	28	29	30	28	29	30	26	27	28	29	30	31	..
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The provisions of this catalogue represent adopted policies and current practices, but are not to be regarded as an irrevocable contract between the college and the student. The college reserves the right to change provisions or requirements and to fix the time when such changes shall become effective.

RENSSELAER, INDIANA

A city of 5000, Rensselaer is 73 miles southeast of Chicago, 50 miles southeast of Hammond, and 100 miles west of Fort Wayne. Approached from the south, it is 125 miles northwest of Indianapolis and 49 miles northwest of Lafayette.

COLLEGEVILLE, INDIANA

Saint Joseph's College lies just outside Rensselaer's southern city limits. Indiana State Highway 53 (U.S. 231), one of the main routes connecting Chicago and Indianapolis, passes through the College grounds. Interstate 65 also provides fast transportation coming south from Chicago and north from Indianapolis. Visitors using I-65 should exit at the Route 114 ramp coming from the north and at the Routes 53-231 exit coming from the south. The Indiana Motor Bus Company, operating between Cincinnati and Chicago, uses Route 53 and will take on and let off passengers at the campus.

CAMPUS VISITS

Parents and relatives of prospective or resident students are welcome at the College at any time of the year. The College Courier Club offers guided tours of the campus, conducted by students at Saint Joseph's. Visitors are asked to notify the Admissions Office when arriving on campus to arrange for a tour guide. Interviews with the Admissions Office can be made by appointment.



Saint Joseph's College



Rensselaer, Indiana

